	GGCACTTCAT TAATTTAGTT TAGTGGTATT TATTAAATTA TACGAAGGGA CCCAACACAG	1320
	AAAATTCAAA TTATTGAATT AAACATTTAT GTGCAAGTTT GGCAAAGTGT CTTATTTTTT	1380
5	AAAAGTATGT AAAAGTAAAA TTACATGTTA ATACGTAGTA TTAATGGCGA GACTCCTGAG	1440
	GGAGCAGTGC CAGTCGAAGC CGAGGCTGAG ACGGCACCCT AGGAAAGCGA rCCATTCAAT	1500
10	ACGARGTATT GTATAAATAG AGAACAGCAG TAAGATATTT LCTAATTGAA AATTATCTTA	1560
10	CTGCTGTTTT TTTAGGGATT TATGTCCCAG CCTGTTTTTT GTGATTTTTA ATAATTTGAA	1620
	TATGGYAAAT GTATTAWTCL CTCATTTGTA TAGATT	1656
15	(2) INFORMATION FOR SEQ ID NO: 3233:	
20	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3233:	
25	TTGCTCATAA ATCTTTTCTT GGCGCTCTGA ACACTATCTT CTATTCTGTC GGAATTTTTC	60
	AAACATAGTC TTATCATTIN CTTCTAATCG CGTTAAACGC CAATCTTGTT CATGTCGTTT	120
a*	GGTAAATCCA	130
30	(2) INFORMATION FOR SEQ ID NO: 3234:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3234:	
	GCCACGATAA AGAAGTAAGA ACAACACATG GTGTTACTGG TACAGGCTCA TGTTCTTGGG	60
	AAAGTTATTT GTGnAAAATG GTGTGAATTA CCTGGGGAAA AATCAACAAA CTGACTATCC	120
45	AA	122
	(2) INFORMATION FOR SEQ ID NO: 3235:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3235:	
_	AACCAGGATA TGAAATCTGT GACTTATTGC GTTAGATCGT TTTGTAACTG CTACTATTGA	60
5	AGAAGCAGAC CAATATAAAG GTACCATTCA TTGCAAAAGC ATTACATGCA TGAACCCAGT	120
	TGACATTTAG TTAGAGATGG AAGATAGTAT TGTGCATTTG CAGTTTCCAC ATG	173
10	(2) INFORMATION FOR SEQ ID NO: 3236:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3236:	
20	GCGGTGTGCA TTTGAAAATG TTATCAAGAA TATTGAGTTA ATTCGCAACG ACATTATACC	60
	AGCGATTANA AAGCATTTAT CAAAATACGA GGGGCGTCAT CATGAATATT GTATTATTGT	120
25	CÀ.	122
	(2) INFORMATION FOR SEQ ID NO: 3237:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3237:	
	TTTTTTGCCC AAAATTTTTG GGTTTTTTTT GGGTTAAAGG AAAAAAAA	60
	GGGGGGGGTC CCCCAAAAAT TTTTTTCCCT TCCCTTTGGT TTGGTTTTTT GGGGGGGG	120
40	CCCCCCCCT TTGGAAAACC CCTTAAAAAA ATTTAAnGGT TAAATTGGAA AAAAAAATTT	180
	AA	182
45	(2) INFORMATION FOR SEQ ID NO: 3238:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(vi) SPONENCE DESCRIPTION: SEO ID NO: 3238.	

	GATGANGTTC GACAACGTAT TGTGGCAGAT GTTGCAGTTG ACTITGAAGA A	111
	(2) INFORMATION FOR SEQ ID NO: 3239:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3239:	
15	AGTTGATCGT ATTTTCCAGA AGAGACAGAA TTAATTGATT ATCGTGTTAG TTCTGTCACT	60
	GAAGGTACTG ATGCCCAAGC AGNAGTACAT GTAAGTTTAT TGATTGAGGT AAGACTGTCA	120
	(2) INFORMATION FOR SEQ ID NO: 3240:	
20	(i) SEQUENCE CHARACTERISTICS:' (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
2 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3240:	
30	TACACATCTm TCTACGATTG TAGTTTATCG ATAGGTTTCG CATCATGAAA CGTGATAAAC	60
	AACCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCAGTGTTT	120
	AGCATAT	127
35	(2) INFORMATION FOR SEQ ID NO: 3241:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 124 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3241:	
45	GACTAAAATA CATGTTGGAA TACTTGGTCC CATGGGAAAA TATTGGACTG GGTAACCCAA	60
	TCACGGCTTC TGAAGTAGTT CTTTnTCTTC TATTAAAATA GCGACGGAAT CACACCTTCT	120
<i>50</i>	GCGG	124
	(2) INFORMATION FOR SEQ ID NO: 3242:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs	
55	(U) mandring the meac better	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3242:	
	TACGTGTATA CACCGTTATC TTTATGGCTT TGAATTTCCA TAATAAATAC ATACGGnTTT	60
10	TGTGCAGAGC TCAGCACATA ATCATCTTTA ACTATAGTTT CTGGGAATCA CTTCATAGTT	120
	TT	122
	(2) INFORMATION FOR SEQ ID NO: 3243:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 221 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3243:	
	AACCITITCT GCAACCATAC GCCATAGGTA TGLTTTCTTT TTACAATTAA AGAGCCAACC	60
25	GTTGTTATAG TCTAACAATG GTTGGCTCCT CTTATTTTAT GTGCTAAAAA TTTATAGGCA	120
	ATTITATTAC AACAATGTAC ATTIAAGGTG ACCTTCATGC CAAAATCGCA TCACTCATTT	180
30	AATGGAAGCA GCACGTCTTC ATACAAAGTC ACGATCCTAA T	221
	(2) INFORMATION FOR SEQ ID NO: 3244:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3244:	
	TTGCATTTTG ATTGTCTGGT GACCTTGGCA ATGACAATTC CCGCTTGCAA TCGGTATCTT	60
45	CAATATTATA ATCAGGTCTT GCCTTAGATT TTCGCTAAGT ACCGGTGATT CTCTACCATC	120
45	ATACTCACCT CATGIGCTAT TITTCTAGAG TGCTTCTTTT CACACTTTAT CTTATAAAAG	180
	GCTAGCTACT ATTACCGATT TATCATTATT AGTGGTTTTT ACCn	224
50	(2) INFORMATION FOR SEQ ID NO: 3245:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
EE	(C) SIMMDDURBS. GOWIE	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3245:	
5	GAAAGAGATT AGTGACAAGT TGGTTGTACT ATTACGTTAA AATTTGGAGA TTATGTGTGG	60
Ü	TGTTCAAGTA TGCGTTCAnT AATTGATATT GGCGCACCGT ATAACCATGT CAAAGTA	117
	(2) INFORMATION FOR SEQ ID NO: 3246:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3246:	
	CTACAGGCTT TCGTACCACA GGATCAAAAC TACGCACTGT GCCTTGTACA TACGCATGAT	60
20	CAGCAATGAC ATTCCAAGTA TTACCACATG ATATTTGnCC AATTGTTACT ACCGTTC	117
	(2) INFORMATION FOR SEQ ID NO: 3247:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3247: TACACANCTT TCTACGTGTG TAGTTTATCG ATAGGTTTCG CATCATGAAA AGTGATAAAC	60
	AGCCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCATGT	117
35	(2) INFORMATION FOR SEQ ID NO: 3248:	11/
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3248:	
	CCCGTCCTTT GGTGGAACCG TTTTGTAGAA TTAAATAATA TTACAGAGCC GCTAGCAGTA	60
50	ACGATCCAAA CGAATTTACC ACCATCACGT GGATTAGGAT CGAGTGCACT GTCGCGGTTG	120
	Chtttggtcc tgcca	135

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3249:	
	AAAAGCCAAC CCATGNAATG TTGGATTGGC TTTTTACATG CCATCTGAAT CTCTAATTTT	60
	AAAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT	106
15	(2) INFORMATION FOR SEQ ID NO: 3250:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250:	
25	AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAn	60
	TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA	120
30	GA	122
30	(2) INFORMATION FOR SEQ ID NO: 3251:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251:	
	GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC	60
	CARATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC	120
45	CCAGTACATT AA	132
	(2) INFORMATION FOR SEQ ID NO: 3252:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3252:	
	GGAAAATCTT CAAATTCTGC AAATTGCCAA TTTACCTAAT AACCAAACAT CTAAGGCATG	60
6	TGTAATGCTG CTAChTCCGC TTCGTCATCA GCTACAATGA CAAATACAGG TGCCA	115
	(2) INFORMATION FOR SEQ ID NO: 3253:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3253:	
	TTTCGTCAAA TTATGGGAAT AAAATAATCA TATTTAAGAT AGTAAATATT GAATAAGTTG	60
20	CTTTGAAATT TATAAAATGA AAGTATAGTG TCATGGGDAG TATAATAGTC AGATATATAT	120
	GTAACGGCAC TATATTGAAA	140
	(2) INFORMATION FOR SEQ ID NO: 3254:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3254:	
	AAATCTCCTA CTTTTCTAC CCATAAATAA TTGGCTAACT TTTTCATCTT ATCTTCATCC	60
35	TTTCTCTTCT ATTTAAAATG CTACAAATAA ATTTCCGCGA GTAATTTTAA TGTTTTACAA	120
	CGCTGTTCAA TACCTGGAAT AAGCGGTGCT ACTAACACCT CATCAACTTC AFACGTAGCA	180
40	ATGAAATCAT CTAATTGTGC TTTAACCTWT TCTTGTGTAC CTGCAATGAT GCGTGCTTGg	240
	ATGTGCTTGA ATCATCTCTT TGTCTCGATC ATTAAGCTTA TACTTTTGTG CTGTGTCTAC	300
	TGAAGGAAAA TCTTCAAATT CTGCAAATGT AATTTACCNA ATAACCAAAC ATCTAAGGCA	360
45	GTTGTAAGCG GCNACTTCCG CTTCGTTATC AGCNACAAG	399
	(2) INFORMATION FOR SEQ ID NO: 3255:	
5 0	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3255:	
	ACCATTCGTC AAAATATTCC AACACGCATT TAGGTGTGCA AGGTATCGGT ACCTAACAAC	60
5	GAAGCTATCG TCTCACTANC CTTAAAAGAT TTTAGAACAA CAGCTGCACT CATCAT	116
	(2) INFORMATION FOR SEQ ID NO: 3256:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3256:	
	AAAGACCTAA GGTTATGTAA TIGGCCTAAA TTTATTAATC GTTTAANTTC AGTTAGTAAA	60
20	AAGTCTGTGA GTAAGGGTGT ATGGAAACTG GTTAAATATT ATAGAG	106
	(2) INFORMATION FOR SEQ ID NO: 3257:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3257:	
	AACGTCCATC GTAATACCTT TTGTGTCTAA TGTAACTTGT ACATCGTCTA ATAATAAGTT	60
35	GACGATATCT TGACAATGCA TCTTTATCTA GATGTAAGAn TTCAACGGAT GCCG	114
	(2) INFORMATION FOR SEQ ID NO: 3258:	
40	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3258:	
	TTAAAGCAGT TAATCCACAG GGAAAGTGGT TAATACAGTT GGGCTCTGGT GGATAGTACA	60
	GTTGCAGGCA TGGTGGGCTG GGAATTGCTT CAGGGTTTAA CGANTGGGAA AAGCCTT	117
50	(2) INFORMATION FOR SEQ ID NO: 3259:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3259:	
	GGACCGCCAT ATCGTTGGCA ATCATCGCAC CTATAATCAT CGCAAGTATA ATAATATTAG	60
10	CACCTTGCAT ACTTTTTAAC CAGGTTGTTA ATGCCTCAAA AATATTAGAA ATTGGTGCCC	120
	GnTT	124
	(2) INFORMATION FOR SEQ ID NO: 3260:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3260:	
	TACCAATGTA TATCCATATA CTTTTATCAT AATCATTTCA GCCGACTTTA GTTTGATGTT	60
25	TTTGCTTGAT TAAAATCTTT CGGCGATCTT CAGCTTGATG TTTTCGTTTG ATTAAATTGG	120
	TACAATANAT	130
30	(2) INFORMATION FOR SEQ ID NO: 3261:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid - (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3261:	
40	GGCCTTTTTG GGCCGGGGTT GGAAATTGGG GTTGCCTTAA TTTTTTAATT AAATTTTGGA	60
	ATTARARAG GARARATICC ARAGGITART TITARARARA GCCCARGGIT TIRARARITC	120
	CCCCAACCAA AAAGGGGGG AAAAAAGGTT GGGGGTTTTA AAAATTAnCC AAGGTTTTTG	180
45	GGGCCCTCCC TTGGGGGTTG GGAATTAAAG GTTAACCAAG GTTTTTGGCC AAGGGGCCCA	240
	ATTGGGGGTT GGGGCCCTGG GGGAAAATTT TTGCCCTTTC CCAAGGGGTT TTTTAAAACC	300
50	CGGATTTTTG GAAAAAAAA AGCCCATTTT CCCCCCAACC CNAAAGCCCA GTTCCCGCCC	360
50	ATTTTCCCGG GGTAACCCTG CCCCCACCGG GGCCATTTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3262:	

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5	(A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3262:	
10	TGGTTCAATG GAAACGTGTA CCGCAAATEC CGTTAAATGT TGTTGGATGT TGAGAGACGT	60
	GGCTGAACTG GCACATTTGG GCAATGACCA ATGGAACAAG CTAATGGGCA AGCGATTATT	120
	GCGACGGCTG ATGG	134
15	(2) INFORMATION FOR SEQ ID NO: 3263:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263:	
	TTTTTTCTG TTGGTACTTG TTTTGTGGTT GGCGATTGTG GTGTGTCTGA nTTAGTAGAT	60
	TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT	105
30	(2) INFORMATION FOR SEQ ID NO: 3264:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264:	
	GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG	60
	CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT	107
45	(2) INFORMATION FOR SEQ ID NO: 3265:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3265:	

	GTCGTAACAA TGGTTCGTTA CCAAAGCATA NTTCGCCTTC TTGGCATCG	109
	(2) INFORMATION FOR SEQ ID NO: 3266:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3266:	
15	TTACCTTTAA AATAANGTTC TCCACTAGTT GGGCTAAACA AATTACATAT TTTGCTTTTG	60
	GAAATGTACT TTTTACCACT ACCTGATGGA CCTATAATGG GCAA	104
•	(2) INFORMATION FOR SEQ ID NO: 3267:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3267:	
	TAAGCCATCA GAAACAAATG CATATAACGn AACAACACAT GCAAATGGTT CAAGTATCAT	60
30	ACGGTGCTCG TCCGACATAC AAGAAGCCAA GCGAGAACGA ATGCATACAA TGTAACA	117
	(2) INFORMATION FOR SEQ ID NO: 3268:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3268:	
	GCTGCACAAG CACAACCTGG AATCAGCAAC ACCGGCAAAC CARCAGGTCA AGGAATAACC	60
45	AAGCAGCACC TCATAATAAT GCAACACCGG CAATCAAACA C	101
	(2) INFORMATION FOR SEQ ID NO: 3269:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs	
50	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3269:	
	CATACCCTAT TTTAGATATT ACCTTATTAC AAAATATTTT TACATTAATG TCAGCTGCAG	60
5	GTTAGTATTG TTTTCCAAAA TTTACCGGTC ATCTTTGCCA ATTGGGTGTC GCCAATCGGG	120
	ATTTATCCTA GGAAGCCGAT TAAAAGGGTA CTGCCAGGGT TTTAGCCTGC nGCTGCCTCG	180
	GGGTTTCTT TAAATTAATG NAACCGC	207
10	(2) INFORMATION FOR SEQ ID NO: 3270:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3270:	
	ATATTOGCAC CACCATAAAC ATAGATGGTG TTTTGTCCTT CTGCATTCAC AGTGATAAAA	60
	GGGCTTGGnC CCGTTTTTGC TTCAGCTGTT TTGAATAATA TATGATG	107
25	(2) INFORMATION FOR SEQ ID NO: 3271:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3271:	
35	TTGGTTACAC TTCTGCTAGT TTTAGTAACG ATGGTCCAAG ATTGTATGAG CCTATTCATG	60
	GATCAGCACC AGATATTGCA GGTAAAAACG TTGCCAATCC ATTTGGGATG GTTCTmATGC	120
40	TT	122
••	(2) INFORMATION FOR SEQ ID NO: 3272:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3272:	
	GAAGGATGAT GATTCGGAGC ANCITCITGC AGAAGANGCG GNAATAACGT GACATATTGT	60

	TGCGAGCGCT TGACAATCTA TTCTTTTTAA AGAAAGCGGT TGTTAGACAA TGCATTAAGA	180
	GAAATTAAAG CGGmGTTTAC TTTTGTAAAT GAGCATTTGA TTTTTTTGAAA ATAAAGCAGT	240
5	ATGCAGGCGC TTGACTAAAA AGAAATTGTA CATTGACAAC TAGATAAGTA AAGTGAAAAT	300
	ATAGATTTTA CCCAAGCAAA ACCGAGTGAA TAAAGAGTTT TAAATAAGCT TGGATTCATA	360
10	(2) INFORMATION FOR SEQ ID NO: 3273:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3273:	
20	TCAATTTTAA CTGCAAATAA TAAAGCTGCA TGATTTACTT TGTACATTAT TGTAATTTCA	60
	GTAATACGAG GCAATGTCAG THGCAGTGTT TAATAAATTT TGTTCGCTAT TT	112
	(2) INFORMATION FOR SEQ ID NO: 3274:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 336 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3274:	
35	TACATTTATG CAATCAACGT TACATTCAAT CGTTGGAGAA AATTGGCTTT ATTGACTTAC	60
	TAAAATCTAA AAAATCATAT GAAAGAATTG CACATATGTT AAAAACLGGT AAGCCATTAC	120
	GTAATTAAAA GATAGTCATT AAGAGAGGAT GATAACCATG CAAGAAAGCA TACATTGTAG	180
40	CTTATGGGCG TTCAGCGCAG CGAAAGCAAA GCAAGGCGCA TTATTCCACG AAAAGACCTG	240
	nTGATGTCGC AGCCAAAGTA ATTACAAGGC GTATTTGAAA ACGTATTGAC GGGANAAATT	300
45	CCAATAAGGA TTATGGATTG nAAGATGGTC CATTTG	336
43	(2) INFORMATION FOR SEQ ID NO: 3275:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

CAAATGCTTT TGCCACCCCA GATGCAATGG TACCAACACC TGTTTTCGAA ACTAATTTTA	60
CCGGCGATAT CTGGCATCTT TTATTTCGGC ATTTTTTCAA ATCATGGTTA TTCCAGTTTG	120
GCGGCTTAAA AATTCnTT	138
(2) INFORMATION FOR SEQ ID NO: 3276:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3276:	
CATTATACGA GNATAAGTAA AATTGATGAT GTGACTAAAA AAGATGCACA ACAATTATTG	60
AAGATGCAAA AGAATTGCAT GCCAAGCTGA TACATTAGAT A	101
(2) INFORMATION FOR SEQ ID NO: 3277:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3277:	
TGGTTATTCG TTCCTGATCG TTGTTGGTAT CTCACTATTC AANATTTATC GTGTGGCATT	60
ACTITAGITA CACCAGGIAC ATTIGAACCI GGCACTIGIT GCGAGIATIT CCGGICTCGI	120
CATT	124
(2) INFORMATION FOR SEQ ID NO: 3278:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278:	
GACTTTTTGA CCAGTTGTAG CACGACCACC GAGAGTAGCA TTGCATATGC AATCATTGTA	60
CCTTCGCCAA CGACTGnGCC AATATTAATT GTTGCGCCCA TCATAACGAC	110
(2) INFORMATION FOR SEQ ID NO: 3279:	
	CCGGCGATAT CTGGCATCTI TTATTTCGGC ATTTTTCAA ATCATGGTTA TTCCAGTTTG GCGGCTTAAA AATTCATT (2) INFORMATION FOR SEQ ID NO: 3276: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3276: CATTATACGA GHATAAGTAA AATTGATGAT GTGACTAAAA AAGATGCACA ACAATTATTG AAGATGCAAA AGAATTGCAT GCCAAGCTGA TACATTAGAT A (2) INFORMATION FOR SEQ ID NO: 3277: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3277: TGGTTATTCG TTCCTGATCG TTGTTGGTAT CTCACTATTC AANATTTATC GTGTGGCATT ACTTTAGTTA CACCAGGTAC ATTTGAACCT GGCACTTGTT GCGAGTATTT CCGGTCTCGT CATT (2) INFORMATION FOR SEQ ID NO: 3278: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278:

5	(A) LENGTH: 113 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3279:	
10	TTGGTATATA GAGGGCAACC GCACCTGATA AAATGTGnCA CAGTTTTTAC AAGAGGTTAA	60
	GGAATGAGTT TGGAGGCATA CGAGCATCAA GATACCATTC GATGTTAGTA ATT	113
	(2) INFORMATION FOR SEQ ID NO: 3280:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3280:	
	TTACCGTCAC CGTAATCAGT CCATACTTTA TCAGCTATAC CGGCTTTAAC AGCATAAATG	60
25	TTCGTTCCTG TAGGCATACC AAAGnCGATA CCATAGTGAC G	101
	(2) INFORMATION FOR SEQ ID NO: 3281:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3281:	
	ACTATGTTTG AMAAATTCGA CAGAATCAGA AGCACAGTCT GAGAACGCAA GAAAAAATTT	60
40	ATGACAAGTT AGATAGAAAT TTCGACGAAC TAAGGGCGTG ACCAAGAAGA AGATGA	116
	(2) INFORMATION FOR SEQ ID NO: 3282:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3282:	
	ACTTGGTTAG ATAATATAGC GTCGATTGTA TCACGAGTGT CTGTTCCAGT CATTATAAAA	60
EE		

	CGTCGTTCTG ATGCTTTTCC TGAATCAT	148
	(2) INFORMATION FOR SEQ ID NO: 3283:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3283:	
15	ARATGACGAT AGAGTCAGGT ATTAACTCAT TTTnCAATAG TATCAGGAAG ACTACCAAGC	60
	TTATGTTGAA GGGCATCTTT TGGCGTTACC GGGTTGGGCA	100
	(2) INFORMATION FOR SEQ ID NO: 3284:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3284:	
	TTAAGAAACC GAGCAGCGCA TAANCCTGCA GTACCTTATC GCTTCTAGAT AATCCGATTG	60
30	CGACACCATT GCAAGATGAC CGGTAATTTT GGAACATATA C	101
	(2) INFORMATION FOR SEQ ID NO: 3285:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3285:	
	TAAAATATTT CGCATCCCTA CACGCTAAAA TAATACATTA CACTTAAAAC GGCTGTTTTA	60
45	AAGCATCCTC CCATAAACAT CATCTAGTTG ATAATAGGGG GGGGGn	106
	(2) INFORMATION FOR SEQ ID NO: 3286:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCNAG AACCCATTTT TTGAATATTT CACCACTCGA ATCATCAATA C (2) INFORMATION FOR SEQ ID NO: 3288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3286:	
TGATCATAAT GCGCTTTTAA ATAAAATGGT GGAGA (2) INFORMATION FOR SEQ ID NO: 3287: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287: TCGARATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGARAT 20 AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCDAG AACCCATTTT TTGAATATTT CACCACTCGA ATCATCAATA C (2) INFORMATION FOR SEQ ID NO: 3288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289:		TTTAACAATA CCTCAGAACA TACTATGGAA ATTGCTGCAA AGTTAATTGG GCATGCATAT	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287: TCGAAATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCNAG AACCCATTIT TTGAATATTT CACCACTCGA ATCATCAATA C (2) INFORMATION FOR SEQ ID NO: 3288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	5	TGATCATAAT GCGCTTTTAA ATAAAATGGT GGAGA	95
(Å) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287: TCGAAATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT 20 AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCNAG AACCCATTTT TTGAATATTT CACCACTCGA ATCATCAATA C (2) INFORMATION FOR SEQ ID NO: 3288: 26 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: 43 TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA 44 GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: 46 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA 60 GATTTACGTA TGTCTACAAG TTTAGGCGC		(2) INFORMATION FOR SEQ ID NO: 3287:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287: TCGAAATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCNAG AACCCATTIT TTGAATATIT CACCACTCGA ATCATCAATA C (2) INFORMATION FOR SEQ ID NO: 3288: (i) SEQUENCE CHARACTERISTICS:	10	(A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
AGGGATACT AGGCACA ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT 20 AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCDAG AACCCATTTT TTGAATATTT CACCACTCGA ATCATCAATA C (2) INFORMATION FOR SEQ ID NO: 3288: 26	15		
AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCDAG AACCCATTIT TTGAATATTT CACCACTCGA ATCATCAATA C (2) INFORMATION FOR SEQ ID NO: 3288: (i) SEQUENCE CHARACTERISTICS:		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287:	
CACCACTCGA ATCATCAATA C (2) INFORMATION FOR SEQ ID NO: 3288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC		TCGARATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT	60
(2) INFORMATION FOR SEQ ID NO: 3288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC	20	AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCDAG AACCCATTTT TTGAATATTT	120
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC		CACCACTCGA ATCATCAATA C	141
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC		(2) INFORMATION FOR SEQ ID NO: 3288:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288: TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS:	25	(A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS:	30	(b) Topobogi: linear	
TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS:		AND GROVENER DECERTIONS GEO. ID NO. 2299.	
GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA (2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC	٠		
(2) INFORMATION FOR SEQ ID NO: 3289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC	35		60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC		GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA	107
(A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC		(2) INFORMATION FOR SEQ ID NO: 3289:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289: GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA GATTTACGTA TGTCTACAAG TTTAGGCGC	40	(A) LENGTH: 89 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA 60 GATTTACGTA TGTCTACAAG TTTAGGCGC	45		
GATTTACGTA TGTCTACAAG TTTAGGCGC		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289:	
GATTTACGTA TGTCTACAAG TTTAGGCGC		GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA	60
(2) INFORMATION FOR SEQ ID NO: 3290:	50	GATTTACGTA TGTCTACAAG TTTAGGCGC	89
		(2) INFORMATION FOR SEQ ID NO: 3290:	

5	(A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3290:	
10	TGTTACGCCA ACAACAAATC CTACGTCGAC AACTATTTTT AAGCGATGAT TGCAATTAGA	60
	CAGAAATCCA ATCATTTTTG CATTCCATCC AGTGCACAGA ATNTCGAG	108
	(2) INFORMATION FOR SEQ ID NO: 3291:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3291:	
25	GATCAAGnCC TGAGAATTTA ATTTAATTTA TTTTTATATT GGAGATGGTT AAAATGCTAA	60
20	AACTCAACAT GAGTAACCAA AATATTGCCC TTAAAAATGC TGATCATTG	109
	(2) INFORMATION FOR SEQ ID NO: 3292:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3292:	
	TTGATAATTT TGATATAGAA AGTTATTTAA AATTCGAATA AAAATAATAA CTCATCGACG	60
40	TTTAATGGCT AGGTTCCAAT CAACTATGING ACATAAATTC AAATTCGATC ACGTAACGAA	120
	A	121
45	(2) INFORMATION FOR SEQ ID NO: 3293:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3293:	

	GCGCGTAATA CCTGCAGTAC CTCTATCGCT TCTAGATAAT GCGGTTG	107
_	(2) INFORMATION FOR SEQ ID NO: 3294:	
6	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3294:	
15	AAAATGTTAA ACCAAAAAGT TTGGTGAGTT ATAATATGGA ATATTAAATC TGTAGAAGAT	60
	AAAGCGAATA TAAAGTGATT AACTTTGGTA ATAAAGAATT AACAGCGAAA n	111
	(2) INFORMATION FOR SEQ ID NO: 3295:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	\cdot	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3295:	
	CCCCGACTAA ATCGAACGCT TTAATGTAAT GATTTGTCCG AATCCCCATC CTGCACCTGA	60
30	TAATAAGGCG AATAGCAAGT TGGTTCCCGT nGGGAAGCCA CTTGA	105
	(2) INFORMATION FOR SEQ ID NO: 3296:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3296:	
	ATTTATTCAA AACCCGCCAC ATGGGGCAAC GGTTGCCATG GCATGATAGT CCAGATACAT	60
45	GGAAAGGAAT ACAGTCCGGT TAACACTCCA TTAAAAACCT GCGGGTTGGT TAAACCATTT	120
	AACCTAAATG GGTTCCAAGG GTTAACGCGG TTTAAATGTT TGGAAAGGTT ThCCCAGTTT	180
50	CCAAAAGTT TTTNATTCCC C	201
50	(2) INFORMATION FOR SEQ ID NO: 3297:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs	
55	·	

	(C) STRANDEDNBSS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3297:	
	TTTAGACTTT CATCAGTGTT GAATATTTCT CCTTTAACGG TTATAGGTAA TATTTCCTGA	60
10	GAAATATTTC CATTCTTTAC ATTTTCCGCT GTCAATTGAT GACTTCGATA AGCAAATTCA	120
	TCTTGTAATT CTCTTGAAAC ATCATACATC TKGGCCACAT TTTCAGCACC TKGAATCATT	180
	GATGGGTCGC TCATTTCAGG TGCAAATGAT GCACGCTCAT AAAACTCAGG TAATGCTGTT	240
15	TCGTACACAG AATGCGGTCG TTTGATTTTC CAAGGTGCTC GACTTGTACT TTCAACACCA	300
	CCTGCAATAT ATACCTTGCC AGCLCCGGCT TGGATCATGC GACATGCATA TTGAACACTT	360
	TCAAGTCCAG ACCCACATTG CCGATCGTTT GTGACGCCAG TATTGAAGCT TAAGC	415
20	(2) INFORMATION FOR SEQ ID NO: 3298:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3298:	
	TTAATTGCAG CAGAGCGACT AGCTGATTCA GAGGTGTTAG TTTGTACGGT AATAGGATTC	- 60
	CCATTTAGGT GCATCGACCA ACTGCCCGAC GAAAAGCCAT TTTGAAAACC AGAANGATGC	120
35	CGATTCAAAA ATGGGTGCCA AGATTGAAAA TTTGGACCAA TGGG	164
	(2) INFORMATION FOR SEQ ID NO: 3299:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3299:	
	GTAGATGCCA TTTTCACGTT TCTTAGTTAT TGGCATTTTT TAAATGCGAT GTGTGGCTTC	60
50	TACATAACGG GAAATTTTAA GTTTTATGAA TChACATATC AATTGC	106
50	(2) INFORMATION FOR SEQ ID NO: 3300:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs	
55		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3300:	
	AAAAGGTGTT ATGAGATTAG TAAATCANTA GACAAGCAGG TAAATTAAGT GATGTCGCGT	60
10	CATTTAAGGA AGCGATTCAC AATCGAGAAC ACAAAGTACA AC	102
	(2) INFORMATION FOR SEQ ID NO: 3301:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3301:	
	TTAAAAGTTT GGAGATTATC GTGTCGTCTT CAAGTATGCG TTCATTAATT GATATTGGCG	60
25	CACCGTATAA CCATGTCAAA GTACCATTTG NAATCAGTCA TTGGCGCATT GGCTGCCCTA	120
25	GCGTTCA	127
	(2) INFORMATION FOR SEQ ID NO: 3302:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3302:	
	CCAGCTAGAC GATTGCTAAG GTATTGGATG TTTGAAACGT CCATGGACCC AATTGATTAA	60
40	TTGGnTGTAA CTCGGTCAAT GGGTATATCC TAAATGCACT GGCCTGCTGG TGTTCTTCTG	120
	GGCGTTGCTT CGGAAAT	137
	(2) INFORMATION FOR SEQ ID NO: 3303:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3303:	
55		

	ATATAAATTA ACGACGCGTT AATGCAGGCT GATGTGATTT TTATTGGTTT CCCAATTTTC	120
	AAGCTTCCAT CCCTGGTGCT TTGAAAAATG TGTTTGATCT ACTTCCAGTC AATGCGTTTC	180
5	GTGACAAGGT AATAGGACTT GTAGCGACAG CAGGTTCTAG TAAACATTAT TTAATTCCTG	240
	ARATGCATTT ARAACCARTA TTGAGTTACA TGARAGCACA TACGATGCAR ACGTATEATT	300
10	TATTGAAGAG AAAGATTTTT CAAATCAACA AATTGTCAAT GATGATGTTG TATTTCGGTT	360
10	AAAAGCGTTG GCACAATCCA CAATGCGAAC TGCCAAAGT	399
	(2) INFORMATION FOR SEQ ID NO: 3304:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3304:	
	CACCATTATT TACAGGACCT ECGATGACGT GTGGTCCTGT GTTAAGACAT AACATAATAT	60
25	TCTACCTTTG TAATCAGTAC GGGTTTATCT ATCACAGTAC GG	102
	(2) INFORMATION FOR SEQ ID NO: 3305:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3305:	
	TCAGCGTTAT CAATGANTGA CTCTAATGCC TTTTTACCCA TTTTTGTAAA TGGAACATGG	60
40	AAGCATAGAG ATGCGYAGTC AGCTAGCGAC TTACCTTGAC GTTTTGCGTA TTCATTCCAG	120
40	CTTTGTTGGr ATGAGCGGAT ATAAGCATCT TTAGATAATG CACCATCAAC TAATGGATAT	180
	TTATGTCCAG TTGGACGCCA GA	202
45	(2) INFORMATION FOR SEQ ID NO: 3306:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAGATAGGGA TITACACCTA TACCTCGTTC COGGGAAGGG TCGGTGTTCT GAAAAGTTGG	60
	AACTACTCCC GnCAAATATT AAATTATGGG AGCGGGAAGG ATCAGGGATT TGACACCTAT	120
5	GACCTCCATT CCCAGGGAAG GGAATGTGAT T	151
	(2) INFORMATION FOR SEQ ID NO: 3307:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3307:	
	AATTTCGTTA CCTGCGCCTT CTTTTTGCGG TTTTTAAATA AGCGAAAATT TCAGGCGGTA	60
20	AGACATAACG TCCCAGAATA GCTAGGG	87
	(2) INFORMATION FOR SEQ ID NO: 3308:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(6) 10102001 111001	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3308:	
	ATGATGGCAA AGTCACCAAA CTGATTGTGC ACACCAATCC ATCCATCTGC GCTGTAAATA	60
35	ATGGTTCGCA ATAATTTTAA AATACCTTCC GCTACATTTG ATTTAAAGCT GGTTGCGCAn	120
	TGGACTAGA	129
	(2) INFORMATION FOR SEQ ID NO: 3309:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3309:	
50	GTTCCTTTTA TCGTAGTTGG TGGGACTCCT TATCGGCATC GCGGCTGGAC TCTAGGCGGT	60
	GGANACGGAC ATTCAAAAGG GATTTAGTTC ATCCCAGATG GATTTCATTT TGGGGAATTC	120
	CATTTGGA	128

5	(A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3310:	
	GTACGATTCA GCATAAAGTA CACCACATTT GTCACTACGA CATCTGTAGC TGGTATTGAT	60
	CATGCAATCA TGAATAACGC TAA	83
15	(2) INFORMATION FOR SEQ ID NO: 3311:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	13. 1313231 131323	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3311:	
25	CTGAGGATAA AGCGTCTCCA AGATAAGTCT AAAGATCATC ATAATGGGCA AAAAAGGTGG	60
	CAGCGATTCG GTGGCTGGGA ACAAG	85
30	(2) INFORMATION FOR SEQ ID NO: 3312:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3312:	
40	ATTTTATGTC TAAATGCTGG ACCAACAGTA TTGGCTATTA TTTGGTAACG TGATTACTAC	60
	AAAAAATGGA CCGTTGAGTT CGTGGCACAT GATTGATTTT GTAAGTAAGT ATGATGCACA	120
	TGGGCTnTT	129
45	(2) INFORMATION FOR SEQ ID NO: 3313:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCACCTAAAA TTAATCAAGG GACTTAACAT TGGCGAGTCA AGGTATTGAT CAAGCTAATG	60
	GCACAGTTAA ATGATGCCAA AG	82
5	(2) INFORMATION FOR SEQ ID NO: 3314:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3314:	
	ATGTTATGGA AGAATATTGA GTTAATTGGC AACGACATTA TACCGGCGAT TAAAAAGCCT	60
	TTATCAAAAT AGTGAGGGGC GTCATCA	87
20	(2) INFORMATION FOR SEQ ID NO: 3315:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3315:	
30	TGAACCCGTC GTTGCCCATT TGCCGGTTCC CGAAAGCCGG CGCCNACGGT TCTCCCTGCC	60
	TAAATAGGGG ATGGAATATT AAACCATCTG CACCTGGTTT AACACGCTTT GCAATTTGAG	120
35	TTAAGACATC ATAAGG	136
	(2) INFORMATION FOR SEQ ID NO: 3316:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3316:	
	CATTGGCTGT GTCCATTTTT AATCGTTGCG AGTACGTnTA TTAGCAACTT GGAACTGCCA	60
	TTGTTAATTT CAGCTGTCTG TTACATTTCA ACCATAGTCT TTCACAAT	108
50	(2) INFORMATION FOR SEQ ID NO: 3317:	100
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 142 base pairs	
55		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3317:	
	ATCTGAAGCT GGGTTTACTA GAGAAGGTAT GTACGTGACA TGAATTACTA ATGGATTTAT	60
10	TCATCGAGTT ACATCTATAG TTTATTAAAT CAGATACGCC AAAATGCAAA TTAGCTTACA	120
70	AAGATGATGC ATTAAATGCA CG	142
	(2) INFORMATION FOR SEQ ID NO: 3318:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3318:	
	AACATTATGT TAATCAACCT AATGAACGEC TTTATAAATT ACGCTAAACA ATATACAGAT	60
25	ATGCCGTTTC TTATCATGCT GGATGAAGAT GAAAATGGAT ATAAAGCGGG TCGATTTTTA	120
	AGAGCGAGTG ACTTAGGTCA AACAACAGAG CAAGGCGAAT GGAAGCCAGT TATTCATGAT	180
30	GCAATCAGCG ATAGTTTAGT AGTACCTAAT GGCACAATGG GTCAACGTTG GGAAGAAGGT	. 240
	AAGAAGTGGA ACTTAAAACT AGAAACAGAA GATGGTTnTA AAATTANCCC TACATTATCA	300
	ATGACAGAAG GTGGATACGA ATTAGAAACA ATTCAATTCC CATACTTTGA TAGTGATGGA	360
35	GATGGGATAT CATCGTCCAA TCCnAC	386
	(2) INFORMATION FOR SEQ ID NO: 3319:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3319:	
	ACAATGAATG ACATGATTCG AGGTGGACGA CCCCTCCTAT TTTGCATAAA TGCTTTTTGA	60
50	ATCGCCGGTC ATAATGTTCG TTGnCCAATT AACTCAATAT TCTTCATGAC ATTTTCAAAT	120
	GGC	123
	(2) INFORMATION FOR SEQ ID NO: 3320:	

5	(A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3320:	
10	GGCGAACTGT CAATTGCCGG TATACAACGT ATTTTAAGAG CTGCAGAACA TnCGGGTGTT	60
	AAACGTGTGG TCAATGACTG CCAACTTTGG TGCAGTTGGT TTTA	104
	(2) INFORMATION FOR SEQ ID NO: 3321:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3321:	
	GCGCCGGTTT TAACAGGTAA TTTAAAACCA AATACTGATA GTAATGCATT AATAGTCAGC	60
25	AAAATACAAG TATT	74
	(2) INFORMATION FOR SEQ ID NO: 3322:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3322:	
	TCACTCAGGG GGAGATGTCA ATGGGTCAAC ATTATTTGAC AAGGTGTGGA CAGACATGTG	60
40	TTATACGGGA AATTGGGCGA CCGCACT	87
	(2) INFORMATION FOR SEQ ID NO: 3323:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3323:	
	TGCCAAATGT TCCCATAATT TCATTACGAD TCTTAAGTAG GTGGCTATCA TTACGATGCG	60
55		

	AATGCGGTCG GAAAGATAAA TAGCTTCATC AATGTCATGC GTCACTAAAA TAATAGTTGA	180
	TTGCGTTTTA TGTTTTAGTT GCACTAGTTG ATCCTGAAGT TTATAACGTG TAAATGCATC	240
5	TAATGCACCT AATGGCTCAT CCATCAATAT AACGTTAGGC TTATGCACAT GCGCTCGACA	300
	TAGTGCCAAA CGTTGTTTCA TACCCCCGGA CAGTTGCTCG GGAAAATGCT TTCCCCTGTC	360
	TTCTAAATCA ACTAATTTAA GCTGTGCGTT AATCTCTTCA	400
10	(2) INFORMATION FOR SEQ ID NO: 3324:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3324:	
	GAAACCATCG ATTGTAGCAC GAACCATGTT GGATTGGTGT GTTTGnATCC TAATGTATTT	60
	ACTTAAGATA TCAGTGATAC CTGTCTAATT GCAAGTACGG TCAGGA	106
25	(2) INFORMATION FOR SEQ ID NO: 3325:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3325:	
	TCTGAAnTCG CTGTCTGAAT CTGGAATCAC TGTCTGAAAT CCGAAATCGC TAATCTGAAA TCCTGAAATC CGCTAATCTG AAACCTGGAA GTCGCTGGTC TGGAAGCCCT GAA	60 113
	(2) INFORMATION FOR SEQ ID NO: 3326:	113
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3326:	
50	TGTCACGTAC TTGCTGTTCA ACAAATACGT CTTACTGGAC GTGCACCTCA TTCTTCATCA	60
	TAGCCTTCTT CATTAACC	78

(i) SEQUENCE CHARACTERISTICS:

55

5	(A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3327:	
10	AATTGAAAAT TATCTTACTG CGGTTTTTAG GGGTTTATGT CCCAGCCTCT TACTCNAATT	60
	ATATTCACTA TCCATTAGAC CAAATGGGCC ATTTCCAATA ATCCCGCGGT GGTTTCCGA	119
15	(2) INFORMATION FOR SEQ ID NO: 3328:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3328: GTGTTAAAAC GTCACGACGT TTGTTTAAAA TGATGCGTCA TAATGTCTAC ACTTTGCTTG	60
	CGATCATTCA T	71
30	(2) INFORMATION FOR SEQ ID NO: 3329:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	~
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3329:	
40	CTGACGAACC TTGCATCATT TAACTGTCCA TTAGCTTGAT CAATACCTTG ACTCGCAATG	60
	TTAAGTCCTT	70
	(2) INFORMATION FOR SEQ ID NO: 3330:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3330:	

	CCAATCTCG	69
	(2) INFORMATION FOR SEQ ID NO: 3331:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(D) TOPOLOGI: Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3331:	
15	GGACACTAAC ATTAATATGG ACTGGTAATG TTGCTGTTAA TAAACTCATA CCAAATCCTG	60
	GGCATCTCTT	70
	(2) INFORMATION FOR SEQ ID NO: 3332:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3332:	
	CCTTGGGCAC CTTCAATTTG CATATTACGA CGTTTTGCAG CTTGGTTCAA TTGGCAATAA	60
30	CTACACCTAG TGCAGTTGGA TC	82
	(2) INFORMATION FOR SEQ ID NO: 3333:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3333:	
	ATAAAATAAT TAGAACTCTA ACATTGGTTT AACTAATGTT TAGACTTTTT GTGGTTTGTA	60
45	AAAACAAGTA TATTGA	76
	(2) INFORMATION FOR SEQ ID NO: 3334:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3334:	
	TGGTAAGTTG AATAAAGTAT TGAAATCGTT GCCAATATCT TTATACCGTT GGTTCCTGGC	60
5	ATTTATTGGG AGGC	74
	(2) INFORMATION FOR SEQ ID NO: 3335:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3335:	
	AGATAGTTAT GCGCAGTTAA AAACGGTGAA ATGTATTTGC AATAATATGC ATATAGGCAC	60
20	CATACGAGTA AGGG	74
	(2) INFORMATION FOR SEQ ID NO: 3336:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3336:	
	TTGAATCATT GTTAAAAATG GAATTAAAGT TGCTAGTATC TGTCGGGTTT TGAAATAGGT	60
	CATAGGAGAA AACAGG	76
35	(2) INFORMATION FOR SEQ ID NO: 3337:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
4 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3337:	
	CCAAAGAGGC GTTATTAAGC TATTGATAAA AGTTATGTTA CTAAAAAATG TATTTAAATA	60
	AGTAGTACCT AA	72
50	(2) INFORMATION FOR SEQ ID NO: 3338:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs	

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	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3338:	
	ATAAGTCGTT CTACCGTATA GCCGTCATTA TTAATCACAA ATAATACCGG TTTAATATGC	60
10	TGTCTGGTCA TAGTT	75
	(2) INFORMATION FOR SEQ ID NO: 3339:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3339:	
	TTCATCAAAG TATTCCAATG GGAGAAAAAG CACAATAACA TTATCACTGG ATGCTAAATC	60
25	TAAAGGAACC TC	72
	(2) INFORMATION FOR SEQ ID NO: 3340:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3340:	
	GTAAAAATAT TTTAATGAAT GTCTTCACTG GAGAACCATT GACAACCTGG TACAAGTGGG	60
40	ATTATTGGCG TTATTTT	77
	(2) INFORMATION FOR SEQ ID NO: 3341:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3341:	
	AACCAAGGAT GGATTGCTAT TTTAATCCTT GGTTGCTCTT TATTTTATTT	60
55	ACCTAGA	67

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3342:	
	CTGGCAAAAG CACGTTTTAC AAGCATCAAT CCATTAATTA ATAATTCCAT TAAATGTAGA	60
	TTCACAGGGA TATG	74
15	(2) INFORMATION FOR SEQ ID NO: 3343:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3343:	
25	GTTTGATCAT TAGAGAGATA TAGATATGCC GTAGAAAATA ATATGTCATT TGCGGATATC	60
	ATGGTTAAAG AAGAAATGGA ATTAAGCGGT AAATCACGTG ATGAAGTGCG AGCGAAATGA	120
30	AACAAAATTT AGATGTCATG CGAGACGCAT AATCAAAGGG ACGACAGGTG ATGGGGTTGA	180
	AAGTGTACGG TCTACACTGG TCATGATGCT GCTAAACTAC GTGATTATAA TGAAACACAT	240
	CATGCTTTGT CTGGGATATG AAATGATTGA CGCACAAGGG TGCCATTGCA ACAAATGAAG	300
35	TCAATGCTGC CGATGGGTAT TATTTGTGCA CGCCAACAGC TGGTTCCTCG GGTACCATTC	- 360
	CCGGTGGCAC TTTTAAATTA GAAAAAACAC TGGATnGAAC CAGAAGAGCC AATGn	415
	(2) INFORMATION FOR SEQ ID NO: 3344:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3344:	
50	TCCTATACCA CCACCGTCAA CAGCTCCTGC CATCGATCGT ACTTTCAATA AGTCCAATAA	60
50	TCGCAGTGGT AATTTCTAAT ACTA	84
		U-1
<i>5</i> 5	(2) INFORMATION FOR SEQ ID NO: 3345:	

5	(A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3345:	
10	CGGGAGGTGT TAANTCTTCA CAAAATGCCG TACTATTCTT TGATGNAATC CATCAAATTA	60
	TCGGTTCAGG TGCCACAGGA AGTGATTCAG GTAGCHAAGG GTTATCTGAT ATTTTGAAAC	120
	CTGCATTAAG TCGTGGTGAG ATTTCTATTA TTGGTGCAAC AACACAAGAT GAATATCGAA	180
15	ACAATATTCT TAAAGATGCT GCATTAACGC GCAGATTTAA TGAAGTGCTT GTTAATGAAC	240
	CAAGCGCTAA AGATACTGTT GAAATTTTAA AAGGTATTCG CGAAAAATTC GAAGAACACC	300
	ATCAAGTAAA ATTACCAGAT GACGTATTAA AAGCATGTGT TGACTTATCA ATTCAATATA	360
20 .	TTCCACAACG ATTATTACCA GATAAAGCAA TCGATGTGTT AGATATTACA GCAGCACATT	420
	TATCHGCGCA AAGHCCAGCT GTCGATAAAG TTGAAACTGG AGAACGAATT TCTG	474
25	(2) INFORMATION FOR SEQ ID NO: 3346:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3346:	
	AAAATTAATA ACTCCTTGGT TATTGATATG CCTAAAGAAG AAGGTACAAT ACAACTAACA	60
	TTAG	64
40	(2) INFORMATION FOR SEQ ID NO: 3347:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3347:	
60	AGGAATAACT TGATATTGAT GATAAAATCG TCAAACGGCA CTAATATTTA AAAAACAAAT	60
	GTTTTAAGTT GTTGATTTAA AATATTAAT	89
55	(2) INFORMATION FOR SEQ ID NO: 3348:	

5	(A) LENGTH: 107 base pairs (B) TYPE: nucl ic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3348:	
10	ATAACTTGTA CTGCTTCCCA TTAATCACTG TGTCTCTTCA CCAGGAGCTG GCATTTCTTT	60
	AAAGAACAnT TCTGATAAAG GTACAATTTC ACCGGGCATA ACTTCAT	107
	(2) INFORMATION FOR SEQ ID NO: 3349:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3349:	
25	CAACGCATCC TGCACTTTTA CCTATTCCTG AATCACCGGT AATTAGTACA CCAACACCGT	60
20	AAACATCTAC TAAA	74
	(2) INFORMATION FOR SEQ ID NO: 3350:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3350:	
	AGATGCACCT ACTTCTAACT GTCGCCAACA TCGCCGCAAT CATTTCAAAA CTACGTTCTG	60
40	TA	62
	(2) INFORMATION FOR SEQ ID NO: 3351:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3351:	
	GCTGCAAACA ACAAACTATT TTTGATTAAA TTGTGGATAT GATGGTAACC AACCAAGTCT	60
55		

	(2) INFORMATION FOR SEQ ID NO: 3352:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3352:	
	ATTGAACGCA AGATTTCGAT ATAGAACATC TAGCGACGTC GATTCGCAAG GTTGAACCAT	60
15	CTACATTAGG TGAGGAA	77
	(2) INFORMATION FOR SEQ ID NO: 3353:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3353:	
	TAATCAACAC GAGGAGATGC TATTTAATGT CATCTGACAC AAACAGTTTA GCACATACA	59
30	(2) INFORMATION FOR SEQ ID NO: 3354:	• .
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3354:	
40	TTATGTAACC GACGAATGCT GCGATAGTGC TACGCCATCA CCGCCAGCTA ATCCGATTG	59
	(2) INFORMATION FOR SEQ ID NO: 3355:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3355:	
	TAACTATACC TTTAGGGTTA CTACCACGCT TAGGTAGGTC ATAACCTTTA ACCACATCT	59
	·	

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3356:	
10	AATAACGCTA AACCTAAAAT GCTAAATAAT CCGCCGAACA ACATGCCGTT GTTTGTTGA	59
	(2) INFORMATION FOR SEQ ID NO: 3357:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3357:	
	CCAGAACCAC CCACGCCCTT TGAATATGGG AACTCAAAAC GATCTACTGG CTGATGTAAT	60
25	TACCCCTGTT TTGATTG	77
	(2) INFORMATION FOR SEQ ID NO: 3358:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3358:	
	AAGTTAGGTC TAGGGAACAT CGATAAATTA CCAGTAGTAA ATGCAGTTGA ACAACCAGA	59
40	(2) INFORMATION FOR SEQ ID NO: 3359:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3359:	
50	CATGACCTTT AAATTGCATA TCTTCTGCAT CAGGTGCATC GCTTTTAACA ATAACGTCA	59
	(2) INFORMATION FOR SEQ ID NO: 3360:	

5	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3360:	
10	ACGCGACAAC ACCGCCCTCA ACTAAAGTAG AAGCACCGCA ACAAACAGCA AATGCGACA	59
	(2) INFORMATION FOR SEQ ID NO: 3361:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3361:	
	GATTTGATCG AATTGAACGA ACATTTGCTT CTCAAACGAT TGCATCTATT AAAGAAGTAT	60
25	GTCTAG	66
	(2) INFORMATION FOR SEQ ID NO: 3362:	•
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3362:	
	GGTTGCACAT CTTTTACTAC AAATTTCGCT GGTAAAGATG TTGCAAAAGT ATGTCCGT	58
40	(2) INFORMATION FOR SEQ ID NO: 3363: (i) SEQUENCE CHARACTERISTICS:	20
45	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3363:	
50	CCTTGAAACG GCAACATTTT TGGGTCCTTC TCCATCATTT TATTTAAAAG CGCATTAT	. 58
	(2) INFORMATION FOR SEQ ID NO: 3364:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3364:	
	TTGAGAATTT AGGAGGTTAA TGCGTTGATT AAAAGTGGCA AAGCACGTGC ACATACGA	58
10	(2) INFORMATION FOR SEQ ID NO: 3365:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3365:	
	GTTTTTTAT TTTGGATAAA AGGAGCAAAC AAATGGATAT TAACTGGAAA TTGAGATT	58
	(2) INFORMATION FOR SEQ ID NO: 3366:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3366:	
	ATTCATCGGT AATGACATTA TTTTTACTTT GTAATTTCAG TAACAGTTGA TCATCATG	58
35	(2) INFORMATION FOR SEQ ID NO: 3367:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3367:	
	TAAATTAACA GCCGGATGAA ATGAAAGGTG CTACATGCAC AATCAGTAAT ATCGGTTC	58
	(2) INFORMATION FOR SEQ ID NO: 3368:	
60	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	,	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3368:	
5	TACCTACTGG TGAGATTGGC GAACTTGCAA TTAAGGCTAA AAATGTCACG CCAGGATA	58
5	(2) INFORMATION FOR SEQ ID NO: 3369:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3369:	
	TTAAACGGAG AAGGCTTTAC TTTACATGTT GAGGAAGGTC AAGAAGTTAA ACAAGGTG	58
	(2) INFORMATION FOR SEQ ID NO: 3370:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3370:	
30	CTGCTAAACT ACGTGATTAT AATGAAACAC ATCATGTCTT TGTCTGGTAT ATGTAAATGA	60
	TTGACGGC	68
05	(2) INFORMATION FOR SEQ ID NO: 3371:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3371:	
45	ATTACCAACA GCGAAAATAT TGAAAAGCTG TAAAAAAGCT GGTGCAsmCm TACTTGGATT	60
	GAGAATTTAG GAGGTTAATG CGTTGATTAA AAGTGGCAAA GCACGTGCAC ATACGAATAT	120
	TGCACTTATA AAATATTGGG GTAAAAAAGA TGAAGCACTA ATCATTCCAA TGAATAATAG	180
<i>50</i>	CATATCTGTT ACATTAGAAA AATTTTACAC TGAAACGAAA KCACTTTTAA CGACCAGTTA	240
	ACACAGGATC AATTTTGGTT GAATGGTGAA AAGGTTAGTG GCAAAGAATT AGAGAAAATT	300
	TCAAAATATA TGGATATTGT CAGAAATAGA GCTGGCATCG ATTGGTATGC AGAAATTGAA	360

	(2) INFORMATION FOR SEQ ID NO: 3372:	
δ	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3372:	
	ATTTCAACAA CTTTAAAGCA CGTATAATGA TGATTTTCAG ACTTGTACAA AGGAGAAA	58
15	(2) INFORMATION FOR SEQ ID NO: 3373:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3373:	
	AAACCGAGCA GCGCAGTAAA CCTGCAGTAC CTTTATCGCT TCTAGATAAT CCGATTG	57
	(2) INFORMATION FOR SEQ ID NO: 3374:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3374:	
	AGTACGAATA TTACCTTTAT TTAATGGGTG AGCTAAGTTA CTTTCATTT CTTCGTG	57
40	(2) INFORMATION FOR SEQ ID NO: 3375:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3375:	
	GGTGAAGTAT AACTTTGTAA TGGCAGCGCA CTTAATGACT GCCAATAATT GTGACCAACA	60
	ACTAACAGAC	70

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3376:	
	TTCCAAACTT CATTAGGTGA TAGCTTTAAT TTCAAGGCTG GCAATCGCCA TAACAAG	57
	(2) INFORMATION FOR SEQ ID NO: 3377:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3377:	
25	TCCTTCAAAG TCAATGGATT TGATCCTCAG AGGACTCAGT GTATCCTCCA AGTGACCTGG	60
20	CTCGCATCCA	70
	(2) INFORMATION FOR SEQ ID NO: 3378:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3378:	
	ATGAATCATT AAGCCTTTCG GTGCATATGC TGCAAGACTT TGACCAGCAT GACCAT	56
40	(2) INFORMATION FOR SEQ ID NO: 3379:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3379:	
50	CCAACGACTG CGCCAATATT AATTGTTGCG CCCATCATAA CGACAGCACC ATCTTC	56
	(2) INFORMATION FOR SEQ ID NO: 3380:	

5	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3380:	
10	ACAAAAGCAT CAAGCTGTTG AAACAATCAA TGATAGCATT CGAGATTATT TAGTTAG	57
	(2) INFORMATION FOR SEQ ID NO: 3381:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3381:	
	CATATAGTTT TGCTCACTAC CATAACCTGC ATCAGCTACA AATAACCGAA GTATTT	56
25	(2) INFORMATION FOR SEQ ID NO: 3382:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3382:	
35	GAACACAG GCAACCCAAA GCAGTGACGG CGAAAnTTGG ATTGATCTTG CAGCATTGAA	60
	GAAGATCGCG ATGACTATAC AATCAATATC GAGTAGAAGA CCGAT	105
	(2) INFORMATION FOR SEQ ID NO: 3383:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	4 11	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3383:	
<i>50</i>	ngtatgtgaa aactattigg cgatattita gtgatgagcc tcagtgatcc tggttcctgg	60
	TTATCACCTC TGCTAGTTTA GTACCGATGG TCCAAGATTG ATGAGC	106
	(2) INFORMATION FOR SEQ ID NO: 3384:	
<i>55</i>		

5	(A) LENGTH: 57 base pairs (B) TYPE: nucl ic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3384:	
10	TTCTTCGTCA AGATCAATCT CTTCAAGTAC AATCTTTAAT ACCTTCTGCA CCCATTT	57
	(2) INFORMATION FOR SEQ ID NO: 3385:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3385:	
	CGGGCATCTT AAAGCCGATG TTTATCCTGT AATCCTCCAA AAGGAAACAT GTACCTCAAT	60
25	TAGAG	65
23	(2) INFORMATION FOR SEQ ID NO: 3386:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3386:	
	CATTITTAAT TATTICTATI TGCTTTTTAA CCACTTCTCT GACTGCTTCC GAATCATTIT	60
	TCTTAACTGC A	71
40	(2) INFORMATION FOR SEQ ID NO: 3387:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3387:	
	TTAGAAAATG ATAAACGTAA AGCAGTAAGT GCTGAAGAAT ATAAAAAAGC TGACG	55
	(2) INFORMATION FOR SEQ ID NO: 3388:	
55		

5	(A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3388:	•
10	TCTTCGACAA CTTTAATAAT ATTAGCCAAC GCAGTGTCCC CGCCAACTTT TGTTGC	56
	(2) INFORMATION FOR SEQ ID NO: 3389:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3389:	
	ATTTATTAAC GATTAATGAC GCTGGCATGC CAATTCCAGA TGATCATCGT CGTATC	56
25	(2) INFORMATION FOR SEQ ID NO: 3390:	
23	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3390:	
35	AAATGCTATG TACCCACTTT AGATGAAATT TTAGTAACGT TATGGCCCGA AATGCCAACT	60
	ATTATATTGA	70
40	(2) INFORMATION FOR SEQ ID NO: 3391:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3391:	
50	CAAACGCAAT AGCTGGTGAC TTAACTGCGG GCACTTGGCA TGTGGATGGC AATACTTCG	59
	(2) INFORMATION FOR SEQ ID NO: 3392:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(with Chombiagh Discourance and the second	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3392:	
	GCATCTACTG GGAAACGATT ACAAATTGGT GATTTATTAC AAAAGCCAAC TGTAT	55
10	(2) INFORMATION FOR SEQ ID NO: 3393:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3393:	
20	TTTATAAATA TCCCAGTCTG AACGCGATTC CCATAACGGA TCAATGGCAG GATTG	5 5
	(2) INFORMATION FOR SEQ ID NO: 3394:	
25 [']	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3394:	
	TGCTTACGCT CAGTGACATA ATCTAATGTG GCACGTAAAG CGCCACCATA CCACC	55
35	(2) INFORMATION FOR SEQ ID NO: 3395:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3395:	
45	AGTCACCATT TGTTGGTACA GGTTATGGAA CACGTTGCAG CACGTGATTC TGGTGCGG	58
	(2) INFORMATION FOR SEQ ID NO: 3396:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3396:	
	CARATGCATT TARRACCART ATTGRGTTAC ATGRARGCAC ATRCGATGCA RACGT	55
5	(2) INFORMATION FOR SEQ ID NO: 3397:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3397:	
	TGTTGATGAG TCGTGTTTTA TCTCAAGATG TGTTACTCAA AAAGTTATAG AAGA	54
	(2) INFORMATION FOR SEQ ID NO: 3398:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3398:	
	CTTCGTCAAG ATCAATCTCT TCAAGTAAAT CTTTAATACC TTCTGCACCC ATTT	54
30	(2) INFORMATION FOR SEQ ID NO: 3399:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3399:	
	AATGAAAAGC TAGCTGTAGT TGCAAGAAAA ACTGGCTTAG CGATGGCAGT TGGAT	55
	(2) INFORMATION FOR SEQ ID NO: 3400:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
60		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3400:	
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 3401:	
6	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3401:	
	TAAAAATCGC GCACTTAAAC CGCTTATGAC AATCATTATT ACCGCAATAT GCTTG	55
15	(2) INFORMATION FOR SEQ ID NO: 3402: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3402:	
25	GGCACCTCCT TGGATTATTT TTCTTCTACT GTTACTAGT GCTTAACTTT GTTG	54
	(2) INFORMATION FOR SEQ ID NO: 3403:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3403:	
	GATAAGTCTA ACAAGTGGCA CCCATAATCG ATTAAACTAC CGCCACCTTG CAACGTTT	58
40	(2) INFORMATION FOR SEQ ID NO: 3404:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(D) TOPOLOGI: Timeat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3404:	
50	TCGTTTTCGT CCCCAAATTC TGCCAACTTA TTCATGAACT TATCTAGCGC TATTGTTCTT	60
	TGTCT	65

6	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3405:	_
	AAATTTCAGC ACCAATTGTT ATTGGACGAC ACCATTTAGA TGCTGGTTCA GTTGC	59
	(2) INFORMATION FOR SEQ ID NO: 3406:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3406:	
	TCGATTTCAG CGGAACACAT GTAACGTTAG CACAAGCCAT GAACCAATTA GGTGGC	56
25	(2) INFORMATION FOR SEQ ID NO: 3407:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3407:	
	AATTGCTAAT GGTCAAGTAT GGACGTGATC ATTGTTGGTA CTACTTATTG CTGAAACTGT	60
	TAAAGATTAG AAGG	74
40	(2) INFORMATION FOR SEQ ID NO: 3408:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
<i>50</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3408:	
	TGATTTCACA CTTGATAACG GATACTTCGA AGAGATACAT CAGCAGCGTT CAGCTCAGAT	60
	AGTGCTCA	68

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3409:	
	TATGATTAGA AAAAGGGGAA TTTTTATGGA GTATAAGAGT TACTATGATT CGCC	54
	(2) INFORMATION FOR SEQ ID NO: 3410:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3410:	
	TATCTTCAT CATTGAAGAA GATCGCGATG ACTATACAAT CAATATCGAG TATA	54
25	(2) INFORMATION FOR SEQ ID NO: 3411:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3411:	
35	TTGAAGTGCA CGAATCGAAT TATTGTAAGC AGTAATACTT GCCGGCTTCT TAC	5,3
	(2) INFORMATION FOR SEQ ID NO: 3412:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3412:	
	TAGCCGATGG AACCCCATAA CGGTTGCCCT ATAAAAGTAT TGTTTTTGTA TAGTGCTAAA	60
50	TCA	63
	(2) INFORMATION FOR SEQ ID NO: 3413:	30
	19) THEOREGIANT FOR DRY IN NO. 0410.	

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3413:	
10	ACTACCATTG CTTGTTCCGG TTTCACAACT GGTTCAGTAT CATTTACAAC TGC	5
	(2) INFORMATION FOR SEQ ID NO: 3414:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3414:	
	ATGCTGTTGT AAACGGTAAT ACAACATACC TGCCCAACCC GGTAACGCCA AAAAATGTCC	60
	TT.	62
25	(2) INFORMATION FOR SEQ ID NO: 3415:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3415:	
	ACTTAGATCA ATCACATGAT GCCTCACGGA ATCCATTATT TGAAGGTCAT GTTAG	55
	(2) INFORMATION FOR SEQ ID NO: 3416:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3416:	
	TTAGTTCCAG CAATACCTGC TACAGTTGCT GCAGATGCTT CTTTCACCCA TGG	53
60	(2) INFORMATION FOR SEQ ID NO: 3417:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
5 5		

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3417:	
	TGATTTAGGT GCAAAAATTG TAGGTATCGC TGAGGCTTAC GGTGCATTAC ACGATCCAA	59
10	(2) INFORMATION FOR SEQ ID NO: 3418:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPB: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3418:	
20	CGTGGTCACC ATCACCAATT GCTCGATCTA ATTCAGTAAT TCAGATTCAT GTT	53
	(2) INFORMATION FOR SEQ ID NO: 3419:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3419:	
	TGGACCTACT GCAATAACTG AACGTCCTGA ATAGTCAACA CGTTTACCAG TAAGT	55
35	(2) INFORMATION FOR SEQ ID NO: 3420:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3420:	
45	TGTCTCCGGT ACCGTTTGCA CCAGGAATAA AGATGAGCAC GGGTCCTTGT CCG	53
	(2) INFORMATION FOR SEQ ID NO: 3421:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3421:	
	AAATTAAGAA AATTCATTGC CAGATAATTT AGATAAATAA TTAAAACTTA GACCATTCAC	60
5	CCCAATCCCT GA	72
	(2) INFORMATION FOR SEQ ID NO: 3422:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3422:	
	CATATGTTAA ATGGACTCGC TAGATTTAAG TCGCAATAGT AGCGGCCGTT TCTT	54
20	(2) INFORMATION FOR SEQ ID NO: 3423:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3423: CACGTTTCAA ACCTAAAAGA TGCTAAAAAT TTCTCTTAAT TCTTGTGCAA TA	52
	(2) INFORMATION FOR SEQ ID NO: 3424:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3424:	
	ATCGCCTAAC CAAGATGCAC CATCGGTGAT TTTATCGCCT GCCGCTTCAA CCAT	54
45	(2) INFORMATION FOR SEQ ID NO: 3425:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AATAGAAAAT GTACGTAGCG GTATGATGAG GATTTCGCAG ACTAGTTTAG GGTCAAGTG	59
	(2) INFORMATION FOR SEQ ID NO: 3426:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3426:	
15	CCAACGCCAG ATCCAGAACC AAGTCCAGAC CCAGAACCGG AACCAAGCCC AG	52
	(2) INFORMATION FOR SEQ ID NO: 3427:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3427:	
	CCATATTAAT GGTTATGTTT ATGTGAATGC TTGCTTGCTG GACTTGTCTT TT	52
30	(2) INFORMATION FOR SEQ ID NO: 3428: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3428:	
40	TAAAACAGAG ATTGATACTG CAGAAGATAA CTGTATCTCT CCATCTACTG TA	52
	(2) INFORMATION FOR SEQ ID NO: 3429:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3429:	
	TGAAAATCCA CAAGTCGCAC GTACAGTGTT TGAAAAAGGT ATTATGGCGG CA	52

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3430:	
	ATAATTCTTC CAAATATATG AAAATGGATT TGTTCTTTTT TTATAAAAAT CTTATGCTTT	60
	TTAACTAATT GTAAGA	76
15	(2) INFORMATION FOR SEQ ID NO: 3431:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3431:	
	CTGCGGGGGA TAACTGTATC TCTCCATCTA CTGGTAAGTC GTATTAGAAC TAAAGCGGCT	60
	(2) INFORMATION FOR SEQ ID NO: 3432:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3432:	
	GGCTTCAGGC TCATTGATAG GTAAAAGTTG CAAAGCCTGC AAAGCGATTG GG	52
40	(2) INFORMATION FOR SEQ ID NO: 3433:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with depositional deposition and the No. 2422)	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3433:	
	TCGCACGATA CGCCTCCGAA TGAAGAAGGT TTATTGTGCG ATTCTTTTAT TGTTAAATTT	60
	TAAATTTTT	69

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3434: GATCGCTATC CATTAGCTAA ATTTAAACGT TCAAACTCAG GTACATGTTA C	51
15	(2) INFORMATION FOR SEQ ID NO: 3435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3435:	
	TATAGCTACT GCTGCAGCTG CGGCCATTGC AGATGCTGAA CCAACTTCAG C	51
25	(2) INFORMATION FOR SEQ ID NO: 3436:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3436:	
35	ATTANAGCCA ACATTANTTT ATCCACTATT AACAATAACG GCTACAGGCT TATTAATGAT	60
	TTATACCTTT	70
40	(2) INFORMATION FOR SEQ ID NO: 3437:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3437:	
50	TTTGTTTGTT GATTCTTCTC CACCTGTTTC AGGTAGTTCA GATTTCTTAG A	51
	(2) INFORMATION FOR SEQ ID NO: 3438:	

(A) LENGTH: 51 base pairs

5	(B) TYPE: Nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3438:	
10	GTGAATTCCG TAATTACATT TTAGGCTTGA TTTTCTATCG CTTCTTATCT G	51
	(2) INFORMATION FOR SEQ ID NO: 3439:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3439:	
	TTAAGACAGG TTCCTTATGG GACTCTAACA ACGTATGGTG CTATTGCCAA A	51
25	(2) INFORMATION FOR SEQ ID NO: 3440:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3440:	
35	CACTAGAAGA AACGGATTCA TCAGCTATTG GTATCGATTA CCATACTGCT GTGGA	55
	(2) INFORMATION FOR SEQ ID NO: 3441:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3441:	
	CTTCTGGCAA TAGACCGCGA GTTACTGGGG GCAAAACCAG TGTGTAAAAC CGGAACTACT	. 60
50	ATGAGGGGCA TGAAAGT	77
	(2) INFORMATION FOR SEQ ID NO: 3442:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
6	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3442:	
	GTTCGGTTGT GACAGTCAGT GGACGCGTTA CCAAATGGGC GGGAATTAAA GCAAA	55
	(2) INFORMATION FOR SEQ ID NO: 3443:	-
10	(1) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3443:	
20	ATGAACTTTG GGATAAAGGT GATGCCCAAA CTTTCCGTAA CTCATGATGA T	51
	(2) INFORMATION FOR SEQ ID NO: 3444:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3444:	
	CAACGCAGCA AAGCGGAGTG GCCCTTTACC TTCACAGAAT AATGGTCTAA T	51
35	(2) INFORMATION FOR SEQ ID NO: 3445:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3445:	
45	ACCGAGCAGC GCACTAAACC TGCAGTACCT TTATCGCTTC TAGATAATCC	50
	(2) INFORMATION FOR SEQ ID NO: 3446:	
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3446:	
-	CCAATGCAAC GATCCAGTTA TTGTGTTGGC GCAATTGATT AATAGTATTC	50
5	(2) INFORMATION FOR SEQ ID NO: 3447:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3447:	
	GCGCATCATA TCCCATTGCA CCGATAAGAT CCTTCTTACC TTCTACAAGT	50
	(2) INFORMATION FOR SEQ ID NO: 3448:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3448:	
30	GTTCTTACTT CTTTATCGTG GCTCCAACGT GCTCTGTACA TTTTTTCCCA TCTCTCTACT	60
30	(2) INFORMATION FOR SEQ ID NO: 3449:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3449:	
	CAACACCACC GACACCAGAA GTACCAAGCG AGCCGGAAAC ACCAACACCG	50
	(2) INFORMATION FOR SEQ ID NO: 3450:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3450:	
55		

	TTATCACGGT ATATGAGGGG ATTTGAGG	88
	(2) INFORMATION FOR SEQ ID NO: 3451:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3451:	
15	TGCAAAACGT TATGAAGTAC AAGTTGATGG AAGCAACAAA GTAAGTGCGn	50
	(2) INFORMATION FOR SEQ ID NO: 3452:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3452:	
	CAGTTAAGTC ACCAGCTATT GCGTTTGGTG ATCTTAAGCA GGCGTGGATT ATCAAGTTTG	60
30	GGTA	64
	(2) INFORMATION FOR SEQ ID NO: 3453:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobodi: Tillear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3453:	
	TCGTAAACAA TATACTATCT CAACATTTAT TCATCCAATG GAGATAACGT ATTGCGCGGT	60
	TTAACAGGTA ATTTAAACCA AATACGGTAG TAATHATTAA TAGATAGCAA ATCAAGTATA	120
45	AAGAATAAGT A	131
	(2) INFORMATION FOR SEQ ID NO: 3454:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3454:	
5	TTAAAAATGC AGTTATGGCC TCTAAAATCG TATTAAGCAT ATTAGCGCCC	50
8	(2) INFORMATION FOR SEQ ID NO: 3455:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3455:	
	TGCTACATGG CGTTACGGTC AAGATCGTCA ACGATTGATG GGTACAATTG A	51
	(2) INFORMATION FOR SEQ ID NO: 3456:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3456:	
30	ACAAACTGCC AACGATTGGT CGTGTGAATC ATCCAGTGGA AGAAGCGCAn	50
	(2) INFORMATION FOR SEQ ID NO: 3457:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3457:	
	AATCACGTGA GAAGGATACA GCTATTAGTA TCGGTATCAT CGCATTGATT	50
	(2) INFORMATION FOR SEQ ID NO: 3458:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>60</i>	(b) IOFOLOGI. AIRGAI	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3458:	
55		

	(2) INFORMATION FOR SEQ ID NO: 3459:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3459:	
	GGGCCAACAA ATCGGAAACT GCCAATTGGA CGGTTGCCGT CATCAAACCC	50
15	(2) INFORMATION FOR SEQ ID NO: 3460:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3460:	
25	TGCTTCCGCT AGAGGATCCG GTATTGCTAG TCAATTACTA CACCATTTAA ATTGTGGAAG	60
	CAAAAGCT	68
30	(2) INFORMATION FOR SEQ ID NO: 3461:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3461:	
40	TGGTCTTCGC AATCCACGGA TATACCTTAG TACCAGGTAA TTGACCACCT T	51
	(2) INFORMATION FOR SEQ ID NO: 3462:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3462:	
	AAGCTATTAA TGTAATTTAT CAATTGATTG TGCAACGGAC ATCATCTACA AGACCG	56
	WARTELIUM IGIULITUI CONTIGUIZA IOCUICANIC MICHIGINEN URACCA	

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3463: ATACCAAATG TGAGAAACTG GAGCAGCAAN TTCAATGTGA CCCATTCTTT	50
	(2) INFORMATION FOR SEQ ID NO: 3464:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3464:	
05	TCTTTACGGC GTGGTTCTAA TCGCATCTTT TTCAATCTAA GTGCGTTTnT	50
25	(2) INFORMATION FOR SEQ ID NO: 3465:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3465:	
	AAAGAAGATT GGAACGTGTA TTGACGACTG CACCCAGGTA TGGGTGTTCG CCCGACA	57
40	(2) INFORMATION FOR SEQ ID NO: 3466: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3466:	
<i>5</i> 0	ACATCCGAAA GATGACTTGT TTAAAAAAGC AGAGCATGAT TTGCTTACTA TGATTACACG	60
	CGG	63
	(2) INFORMATION FOR SEQ ID NO: 3467:	

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3467:	
10	TACCGATGAT TTCCGAGACA TAGACCGGCC TGTCTGGGGG TCAACTGGAA CTTGGTC	57
	(2) INFORMATION FOR SEQ ID NO: 3468:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3468:	
	TGTTCCTAAT ATTTATGTTG TAAAAATGTA CAATCTAATT AAAGCAATAG TCTTGGGCA	59
25	(2) INFORMATION FOR SEQ ID NO: 3469:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
30	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3469:	
	TCCATGATCG TTCAACATTT AAATACACAA CTTAATAAGT ATCGTGTACA AGTTATG	57
	(2) INFORMATION FOR SEQ ID NO: 3470:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3470:	
50	CCCTGTTCAG GCTATCCTCT AAAGTGACGA TATAGAATAG CGATTAATAT CGCGATAGT	59
30	(2) INFORMATION FOR SEQ ID NO: 3471:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
55	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3471:	
δ	TACGCCATCA NCGCCAGCTA ATCCGATTGC GACACCTAAT GCGAAATCAT	50
	(2) INFORMATION FOR SEQ ID NO: 3472:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3472:	
	AACGTCATCA AATGGAAGTA CGTGACGTTC ACTACTCTCA CTATGGCCGT ATGT	54
20	(2) INFORMATION FOR SEQ ID NO: 3473:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3473:	
30	TAATAGGCAT TCCCATTAGG TGCGTCGACA ACTGCAACGC AAGCATTTGA AACAGA	56
	(2) INFORMATION FOR SEQ ID NO: 3474:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3474:	
	TTTTAAGAAT GTCGCGTTAT CTGCGCCCAT TGGATTGACA TACTTCATAC GTATA	55
45	(2) INFORMATION FOR SEQ ID NO: 3475:	
· ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCCTTTAGGT AAAATGGGCA GAAATGCTAA TCATTTTGGC GGCGAAATGA AAAA	54
	(2) INFORMATION FOR SEQ ID NO: 3476:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3476:	
15	AAADCATTCG CAATCGACCA TAATTTTTTA TGTAATTCAG CTTGTTGCTG	50
	(2) INFORMATION FOR SEQ ID NO: 3477:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3477:	
	GGANGACCAT TAATCGATAT CGGTACACAC GCTTTAGATT TAACGTTATG	50
30	(2) INFORMATION FOR SEQ ID NO: 3478:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3478:	
40	TGCCTCCTTA CGCCATGATG CTTATTCAAA GTAAATTGCT TTGCCGGACT TTGCAGACTG	60
	(2) INFORMATION FOR SEQ ID NO: 3479:	
	(1) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3479:	
	GGTCTTTCAG CTGCTAACGA GTTCCTGTTA CTGTTCATGT CTATCACTTT GCGTTCCCTC	60
EE		

	(2) INFORMATION FOR SEQ ID NO: 3480:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3480:	
	CAAGTATCAT ATGGACGGCT CGCCCAACAC AAAACAAGnC CAAGCAAAAC	50
15	(2) INFORMATION FOR SEQ ID NO: 3481:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3481:	
25	ATTANACAAC ATAGCTCGGC TAATCCTTTA AAGCTTTTGA GTTTTTCTGT TGTAGAACAA	60
	GA	62
30	(2) INFORMATION FOR SEQ ID NO: 3482: (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3482:	
40	TGTGGCTAGC TGTTTCTTTT TTAGGTGCTG TGTAGGAGAT GAACTGATCG T	51
	(2) INFORMATION FOR SEQ ID NO: 3483:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3483:	
	GCAGTTTATA AGTAGAGAGA CAGCTGATCA TGAGATAAAA ATGGGTAAAT ATTT	54
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3484:	
•	TTATCTATCA CAGTACGAAT CCCCCAGAGT ACCGATTGTG ACAGCAACTT CTGCG	55
	(2) INFORMATION FOR SEQ ID NO: 3485:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3485:	
	ATCTCTGGTT CGATTCCCGT CGAGACCGGC ATCATTACAT GTTTATTATG GG	52
25	(2) INFORMATION FOR SEQ ID NO: 3486:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3486:	
	TGTGTCACGA TAATAGGCGT AATATCACTC TTTGGCATGA TTGCCGGATG	50
	(2) INFORMATION FOR SEQ ID NO: 3487:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3487:	
50	TATTTTTGAT CACACTCAAC GCACAAACGA ATGGCCTTTA CCTTCACAGA ATAATGGTCT	. 60
	AATGTAA	67
	(2) INFORMATION FOR SEQ ID NO: 3488:	

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3488:	
10	TAGGTGGTCA ATTACCTGGT ACTAGGTATA TCCGTGGATT GCGAGGACAA	50
	(2) INFORMATION FOR SEQ ID NO: 3489:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3489:	
	CAATTGTACT TCATAACGTT TTGCATTTCG CCACCTTCAC CACTATATTT TCCCATGGTC	60
25	(2) INFORMATION FOR SEQ ID NO: 3490:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3490:	
	CTAAACTGAT TGTTTTACGT AACGTTTCAT CGGCTTCTTT CGCTTCTATC	50
	(2) INFORMATION FOR SEQ ID NO: 3491:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3491:	
	TCGATTTACC TTTCATCATT GAAGAAGATC GCCATGACTA TACAATCAAT AT	52
50	(2) INFORMATION FOR SEQ ID NO: 3492:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3492:	
5	AACCTTTTCA CAAATATCAT ATAACTCTTC TAATGGGATA ATCTCTTCAT GT	52
8	(2) INFORMATION FOR SEQ ID NO: 3493:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3493:	
	GGTTTTAAAC CGTCACGAAC ATCTGGCAAT GCACGAGCAA CGTACATACG TATCTAAAGT	60
	TACGCTT	67
20	(2) INFORMATION FOR SEQ ID NO: 3494:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3494: TACGTTATGT TATGTAAATA ACAGTTAATT ATACCGGTGG TCTGGGTCGA	50
	(2) INFORMATION FOR SEQ ID NO: 3495:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Islandi. Illicul	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3495:	
	CGCTTGTTGT TGTACTTTGG CAGTTCGCGT TGTGGATTGT GCCAGCGCTT TTAAACCGTA	60
45	(2) INFORMATION FOR SEQ ID NO: 3496:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3496:	
	GGCACCGGCT TCTCTATTGC TTCTTTAGCA TATCTGCAGC TCTCTCAAGG GACATG	56
5	(2) INFORMATION FOR SEQ ID NO: 3497:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3497:	
	CACCTTTAGG ATACGCGTCT AACCACTGTG TCGCGTCTCT ATATATCGCT AAACACGTA	59
	(2) INFORMATION FOR SEQ ID NO: 3498:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3498:	
30	AAGTAATATC TGAATGCGTA TATTGTCTAA TITCAAATTC TACAGACATC GACGT	55
	(2) INFORMATION FOR SEQ ID NO: 3499:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3499:	
		50
	ADTGTACACG TCCATCTTCA CATGACAACA ACGATATTTT GACCATCACA	50
45	(2) INFORMATION FOR SEQ ID NO: 3500:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3500:	
66		

	(2) INFORMATION FOR SEQ ID NO: 3501:	
δ	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3501:	
	TGTGTGCCTT TAAGTTGTTG ATGACACGCA TTCACGACAA CAGACATGAC AC	52
15	(2) INFORMATION FOR SEQ ID NO: 3502:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3502:	
	CTGGCTTCAA TGGCAACTTC TGTACCTGGT ACCAATGGGC GATGACCGAT	50
	(2) INFORMATION FOR SEQ ID NO: 3503:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3503:	
	TGTCCGACTT GGCGGNATCG TAATTTAGCG CNTGTAATTC TAAAGGGACC	50
40	(2) INFORMATION FOR SEQ ID NO: 3504:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3504:	
<i>o</i> v		
	AACCTTCATA TTGCTTCTAA TAAGAAACCG AGCAGCGCAC CAAACCTGGC AGTACCTTTA	60
55	TCGC	64

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3505:	
	TATTGATGTT GAAAACTGTT ATGTCCTTTC GATGGGCCAA CACnAAnATA	50
	(2) INFORMATION FOR SEQ ID NO: 3506:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3506:	
	GAATATGGTA TCAATGGTAT GCACTAAGGC TTTATGAAAT TCATTTAAAA T	51
25	(2) INFORMATION FOR SEQ ID NO: 3507:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3507:	
	CGGTTTTAAT CGGTAAATTA AATATGGATG AGTTTGCAAT GGTGTTCACA GAACATCTAT	60
	TTAA	64
40	(2) INFORMATION FOR SEQ ID NO: 3508:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3508:	
	CAAGGCCTTG TTTTTAAAGC AGCTACAGTT GGCAATATGT CCACTCATGT	50
	(2) INFORMATION FOR SEQ ID NO: 3509:	

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3509:	
		•
10	CAGATGCAAA TTGACATGGT CATCAACATC NGTNCATTAA AAGATGGACG	50
	(2) INFORMATION FOR SEQ ID NO: 3510:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3510:	
	ACAAGAGGGT CACCCAGCTC GGTCGATTCC CACCGCCACA TCATGATATT TATTCATAGA	60
	GTTTACGCAC TGTACATGAT TGAATGCGAT AAAG	94
25	(2) INFORMATION FOR SEQ ID NO: 3511:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3511:	
	ACTCAACAAT GGATATTCTT ACACTGAAAA ATGGGTAATG GTGCAAACAT AGTA	54
	(2) INFORMATION FOR SEQ ID NO: 3512:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3512:	
50	CCGGATGCAC ATTTGATGAC TGAAGTCCGC GATAAAGGGA CAANAGTCAN	50
	(2) INFORMATION FOR SEQ ID NO: 3513:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 58 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3513:	
	GCATTAAATT GAAACAATCG GATTTACAAT TTTCTCTTAA TGCTGTCGTC TACACAGC	58
10	(2) INFORMATION FOR SEQ ID NO: 3514:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3514:	
20	GTGTTCGTGT TCATGCAAGG TGAATGCGAG TGATCTGTTG GTATGGGCTT TATGCATGGC	60
	AATCTG	66
25	(2) INFORMATION FOR SEQ ID NO: 3515:	
23	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(C) STRANDEDNESS: GOUDIE (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3515:	
35	ATGCCACTGA TAATGCnnCT GAACTTATTG ATGACTTCTC ATTAGACTAT	50
	(2) INFORMATION FOR SEQ ID NO: 3516:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3516:	
	CGGCGACAAA GAGTAAACAC AGCGGAGGGA CAAAGCCCGC GACTAGCAAC	50
50	(2) INFORMATION FOR SEQ ID NO: 3517:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3517:	
6	ATGCCTATGT AGCACCGAGT ACCGATACCG AACACTTAGC TACGCCAGTT C	51
	(2) INFORMATION FOR SEQ ID NO: 3518:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518:	
	GAGCATHAAG GTGATTTHGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC	50
20	(2) INFORMATION FOR SEQ ID NO: 3519:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519:	
30	GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT	60
	ATCG	64
35	(2) INFORMATION FOR SEQ ID NO: 3520: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Torobogi. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520:	
45	TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA	60
	ATCGGTTCCG ATC	73
	(2) INFORMATION FOR SEQ ID NO: 3521:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3521:				
5	TCAAATTGGC AATTGGTACG AATGTCGACT GTACTAACAT CATTAGCTCA TGATTGCCAG				
	GTGATTTCAT GGATG	75			
	(2) INFORMATION FOR SEQ ID NO: 3522:	٠			
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear				
15					
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522:				
	TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA	57			
20	(2) INFORMATION FOR SEQ ID NO: 3523:				
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear				
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523: TGGTGGAGGT TTTGTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT	60			
	TGTGTTCTCT TT	72			
35	(2) INFORMATION FOR SEQ ID NO: 3524:				
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear				
	(5) 1010201. 111021				
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524:				
	ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C	51			
	(2) INFORMATION FOR SEQ ID NO: 3525:				
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double				

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3525:	
_	TAGACCGTCG TGGATAGTTT TGGGTACGGT AACCAATTTA TTTTGAAGAG ACCATCCTC	59
5	(2) INFORMATION FOR SEQ ID NO: 3526:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3526:	٠
	TAATAACGTT GCCCTCCCAT GTATATCCTA CCAACATGAC ATCTTGTACA	50
	(2) INFORMATION FOR SEQ ID NO: 3527:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3527:	
30	TTCCCAACGA GCAGTCGCAT GCGGTACTGC CACGGCATTT TGATGCAGGC CT	52
	(2) INFORMATION FOR SEQ ID NO: 3528:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3528:	
	AAAGAAAnGA TnGnnnGnnn GnAnAAAnnn nnCCATnnnn nTAAAAAAAA	50
45	(2) INFORMATION FOR SEQ ID NO: 3529:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

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	CATTAGCCTC ATCCCCTTCG TTTAGACTCG CTATAGATGC ACTAAATGGC GATATATTTT	60
	TC	62
5	(2) INFORMATION FOR SEQ ID NO: 3530:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3530:	
	CACTACCACA AAAATTATAG GTGTTGACCT TCAGGnGCAA GTAGTATGAT	50
	(2) INFORMATION FOR SEQ ID NO: 3531:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3531:	
	GAATGCAAAA TCCATTGTA AGGANATCGA ATGGTTTAGT ANCTCGTGCA	50
30		30
	(2) INFORMATION FOR SEQ ID NO: 3532:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(with appropriate programmer), GEO TR NO. 3533.	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3532: GGTAGANCHC TGTTTAGTAC TAGGGGCCCC TCTCGGGTTA CCAATTCAGA	50
		50
45	(2) INFORMATION FOR SEQ ID NO: 3533:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(5) 1010201. 111041	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3533:	
55	ANTA DEMONSTRATION DEM TO 110. Page.	

	(2) INFORMATION FOR SEQ ID NO: 3534:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3534:	
	CGTCAACGAT GTAAAGTAAA GCCTTGTCCA GTTTAATTTA CGAGTGGCGT AA	52
15	(2) INFORMATION FOR SEQ ID NO: 3535:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3535:	
	TTAATCCAGA AGTACCGGTG GATTTAGTTA TTGACCACTC AGTTCAAGTG GATAGCTATG	60
	CARATCCAGA AGCTCTTGAA CGTAATATGA AATTAGAATT TGAACGTAAC TATGAACGTT	120
30	ATCAGTTTT AAATTGGGCA ACGAAAGCAT TTGATAATTA CAATGCAGTT CCTCCTGCAA	180
	CTGGAATAGT TCACCAAGTT AACTTAGAAT ATTTAGCAAG TGTTGTACAT GTTCGTGATG	240
	TAGATGGTGA AAAAACTGCA TITCCAGATA CATTAGTTGG TACTGATTCA CATACAACAA	300
35	TGATAAATGG TATTGGCGTA CTAGGATGGG GTGTTGGTGG TATTGAAGCT GAAGCTGGAA	360
	TGCTTGGACA ACCTTCTTAT TTCCCAATTC CAGAGGTTAT	400
	(2) INFORMATION FOR SEQ ID NO: 3536:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3536:	
<i>50</i>	CGTATAGAGT GTCCTACAAC CCCAACAAGC AAGCTTGTTG GTTTGGGCTC TTCCCGTTTC	60
	GCTCGCCGCT ACTAAGGGAA TCGAATTITC TTTCTCTTCC TCCGGGTACT AAGATGTTTC	120
	AGTTCTCCGG GTGTGCCTTC TGATATGCTA TGTATTCACA TATCGATAAC ATGACATAAC	180
<i>5</i> 5		

	GCATATCGTC	GTTAGTAACG	TCCTTCATCG	GCTTCTAGTG	CCAAGGCATC	CACCGTGCGC	300
	CCTTAATAAC	TTAATCTATG	TTTCCACCAT	TTTTATAAGT	CAAACGCTCA	CATACGGCTT	360
5	CGTTTTCATT	ATTTTAAATG	CTCATTTACA	TAAGTAAACT	CTGCTTTAAA	ATAATTTAAC	420
	TCATTGTCTG	CTAAACGTTT	TCTTTTATAA	AAAGATTTAA	ACGCGTTATT	AATCTTGTGA	480
10	GTGTTCTTTC	GAACACTAGC	GATTATTTCT	TATGAATTCA	AGCTTATTTA	AAACTCTTTA	540
	TTCACTCGGT	TTTGCTTGGT	AAAATCTATA	TTTTACTTAC	TTATCTAGTT	TTCAATGTAC	600
	AATTTCTTTT	TAGTCAAGCG	CTCGCATACT	GCTTTATTTT	CAAAAAATCA	AATGCTCATT	660
15	TACAAAAGTA	AACTCCGCTT	TAATTTTTCT	TAATGCATTG	TCTAACAACC	GCTTTCTTTA	720
	AAAAGAATAG	ATTGTCAAGC	GCTCGCATAA	GCAATATCAC	TTTAACCAAA	AAATATTTGA	780
	ATGTTAAATA	AACATTCAAA	ACTGAATACA	ATATGTCACG	TTATTCCGCA	TCTTCTGAAG	840
20	AAGATGTTCC	GAATATATCC	TTAGAAAGGA	GGTGATCCAG	CCGCACCTTC	CGATACGGCT	900
	ACCTTGTTAC	GACTTCACCC	CAATCATTTG	TCCCACCTTC	GACGGCTAGC	TCCTAAAAGG	960
25	TTACTCCACC	GGCTTCGGGT	GTTACAAACT	CTCGTGGTGT	GACGGGCGGT	GTGTACAAGA	1020
	CCCGGGaACG	TATTCACCGT	AGCATGCTGA	TCTACGaTTA	CTAGCGLTCC	AGCTTCATGT	1080
	AGTCGAGTGC	AGACTACCAT	CCGGACTGnG	GACCAACT		•	1118
	/21 TYTODIA	mtou non on					

(2) INFORMATION FOR SEQ ID NO: 3537:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3537:

GGGGATCCCC	AGCCAGAAGA	TTTATTCAGT	GCGATGATTC	GTGAAATTGA	AACGCAAGAT	60
TTCGATATCG	AACACCTGGC	GACGGCAATT	CGTAAmGTTG	AAACATCAAC	ATTAGGTGAA	120
GAAAGTGAAA	ATGACTTTAT	CGGTCTGTTC	AGCGATATGG	ATTTGAGTTC	AACGCGACTA	180
GGTAACAATG	TCAAAGAACG	TACTGCTTTA	ATCTCTAAAG	TCATGGTTAA	TCTTGACGAC	240
TTACCATTCG	TTCACAGTGA	CATGGAAATT	GATATGTTAG	GTGATGCATA	TGAATTCCTA	300
ATTGGGCGCT	TTGnGCGACA	CGGGTAAAAA	AAGCAGGCGA	GTTCTATACA	CCACAACAAG	360
TATCTAAGAT	ACTGGCGAnG	ATTGTCACAG	ACGGTAAAGA	TAAATTACGT	CACGTGTATG	420
ACCC						424

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(1) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 400 bas pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3538:	
	ATCTCATATG TTAAAAGGTA AACAAGGTCG TTTCCGTCAA AACTTACTTG GTAAACGTGT	60
	TGACTATTCA GGACGTTCAG TTATTGCAGT AGGTCCAAGC TTGAAAATGT ACCAATGTGG	120
15	TTTACCAAAA GAAATGGCAC TTGAACTATT TAAACCATTC GTAATGAAAG AATTAGTTCA	180
	ACGTGAAATT GCAACTAACA TTAAAAATGC GAAGAGTAAA ATCGAACGTA TGGATGATGA	240
	AGTTTGGGAC GTATTGGAAG AAGTAATTAG AGAACATCCT GTATTACTTA ACCGTGCACC	300
20	AACACTTCAT AGACTTGGTA TTCAAGCATT TGAACCAACT TTAGTTGAAA GGTCGTGCGA	360
	TTCGTCTACA TCCACTTGTA ACAACAGCTT ATAACGCTGA	400
25	(2) INFORMATION FOR SEQ ID NO: 3539:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 1171 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3539:	
35	AATAAGTAAG TTATTTTGTC TGGTGACTAT AGCAAGGAGG TCACACCTGT TCCCATGCCG	60
	AACACAGAAG TTAAGCTCCT TAGCGTCGAT GGTAGTCGAA CTTACGTTCC GCTAGAGTAG	120
	AACGTTGCCA GGCAAATGAC AAATCGGAGA ATTAGCTCAG CTGGGAGAGC ATCTGCCTTA	180
40	CAAGCAGAGG GTCGGCGGTT CGAACCCGTC ATTCTCCACC ATTTATTCTT AGATATAGCC	240
	GGCCTAGCTC AATTGGTAGA GCAACTGACT TGTAATCAGT AGGTTGGGGG TTCAAGTCCT	300
15	CTGGCCGGCA CCATCTTTTG AGCCATTAGC TCAGCTGGTA GAGCATCTGA CTTTTAATCA	360
	GAGGGTCAGA GGTTCGAATC CTCTATGGCT CATTACGATT TAATTTTTAT ATTTAGCAAA	420
	ATANTGCAGA AGTAGTTCAG CGGTAGAATA CAACCTTGCC AAGGTTGGGG TCGCGGGTTC	480
50	GAATCCCGTC TTCTGCTCCA TTATTTTGCC GGGGTGGCGG AACTGGCAGA CGCACAGGAC	540
	TTAAAATCCT GCGGTGAGAG ATCACCGTAC CGGTTCGATT CCGGTCCTCG GCACCATTTT	600
	AGCGCCCGTA GCTCAATTGG ATAGAGCGTT TGACTACGGA TCAAGAGGTT ATGGGTTCGA	660

GAGCACTTGG	TTTGGGACCA	AGGGGTCGCA	GGTTCGAATC	CTGTCTTCCC	GATTACTTCT	780
TAAATTCCAT	TTTATGGGGG	CTTAGCTCAG	CTGGGAGAGC	GCCTGCTTTG	CACGCAGGAG	840
GTCAGCGGTT	CGATCCCGCT	AGTCTCCACC	ATTTATTTT	TACACGATGA	ACATTGAAAA	900
CTGAATGACA	ATATGTCAAC	GTTAATTCCA	AAAAACGTAA	CTATAAGTTA	CAAACATTAT	960
TTAGTATTTA	TGAGCTAATC	AAACATCATA	ATTTTTATGG	AGAGTTTGAT	CCTGGCTCAG	1020
GATGAACGCT	GGCGGCGTGC	CTAATACATG	CAAGTCGAGC	GAACGGACGA	GAAGCTTGCT	1080
TCTCTGaTGT	TAGCGGCGGA	CGGGTGAGTA	ACACGTGGgA	TAACCTACCT	ATAAGACTGG	1140
Gataacttcg	GGAAACCGGA	GCTAATACCG	G			1171
(2) INFORMA	TION FOR SE	3Q ID NO: 35	540:			
. (QUENCE CHAP (A) LENGTH: (B) TYPE: nu (C) STRANDER	601 base pa cleic acid	airs			
	D) TOPOLOGY	: linear				

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3540:

CTCGGCAGTG TGAAATCAAC GACTCGAAGA CACAATGTCT TCTCCCCATC ACAGCTCAGC 60 120 GCACGCTTCG CCTATCCTAC TGCGTCCCCC CATCGATTAA AACGATTATA GGTGGTACAG 180 GAATATCAAC CTGTTATCCA TCGCCTACGC CTGTCGGCCT CAGCTTAGGA CCCGACTAAC 240 CCAGAGCGGA CGAGCCTTCC TCTGGAAACC TTAGTCAATC GGTGGACGGG ATTCTCACCC 300 GTCTTCGCT ACTCACACCG GCATTCTCAC LTCTAAGCGC TCCACATGTC CTTACGATCA 360 TGCTTCAACG CCCTTAGAAC GCTCTCCTAC CATTGTCCAA AGGCATWCrC ACAGCTTCGG 420 TAATATGTTT AGCCCCGGTA CATTTTCGGC GCAGTGTCAC TCGACTAGTG AGCTATTACG 480 CACTCTTTAA ATGATGGCTG CTTCTnAGCC AACATCCTAG GTTGGTCTGG GGCACGCDAC 540 ATCCTTTTCC ACTTAACATA TATTTTGGGG ACCTTGGCTG GTGGGTCTGG GGCTGnTTCC 600 601 C

(2) INFORMATION FOR SEQ ID NO: 3541:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3541:

GCnAGGACCT	TnCCAAATTT	GAAATCCTTT	GACCACnTTT	GGGGTAGAGC	CCTTTCCCnC	60
GGGGACAAAG	TGACCAGGTG	GTGCATGGTT	GTCGTCAGCT	CGTGTCGTGA	GATGTTGGGT	120
TAAGTCCCCG	CAACGAGCGC	AACCCTTAAG	CTTAGTTGCC	ATCATTAAGT	TGGGCACTCT	180
AAGTTGACTG	CCGGTGACAA	ACCGGAGGAA	GGTGGGGATG	ACGTCAAATC	ATCATGCCCC	240
TTATGATTTG	GGCTACACAC	GTGCTACAAT	GGACAATACA	AAGGGCAGCG	AAACCGTGAG	300
nTCAAGCAAA	TCCCATAAAG	TTGTTCTCAG	TTCGGATTGT	AGTCTGCAAC	TCGACTACAT	360
GAAGCTGGAA	TCGCTAGTAA	TCGTAGATCA	GCATGCTACG	GTGAATACGT	TCCCGGGTCT	420
TGTACACACC	GCCCGTCACA	CCACGAGAGT	TTGTAACACC	CGAAGCCGGT	GGAGTAACCT	480
TTTAGGAGCT	AGCCGTCGAA	GGTGGGACAA	ATGATTGGGG	TGAAGTCGTA	ACAAGGTAGC	540
CGTATCGGAA	GGTGCGGCTG	GATCACCTCC	TTTCTAAGGA	TATATTCGGA	ACATCTTCTT	600
CAGAAGATGC	GGAATAACGT	GACATATTGT	ATTCAGTTTT	GAATGTTTGT	TCATTCAAAT	660
TAATGGGCCT	ATAGCTCAGC	TGGTTAGAGC	GCACGCCTGA	TAAGCGTGAG	GTCGGTGGTT	720
CGAGTCCACT	TAGGCCCACC	ATTAATTTAA	TACCTATTTG	GGGGCTTAGC	TCAGCTGGGA	780
GAGCGCCTGC	TTTGCACGCA	GGAGGTCAGC	GGTTCGATCC	CGCTAGTCTC	CACCATTATT	840
TGTACATTGA	AAACTAGATA	agtaagtaaa	ATATAGATTT	TACCAAGCAA	AACCGAGTGA	900
ATAAAGAGTT	TTAAATAAGC	TTGAATTCAT	AAGAAATAAT	CGCTAGTGTT	CGAAAGAACA	960
CTCACAAGAT	TAATAACGCG	TTTAAATCTT	TTTATAAAAG	AACGTAACTT	CATGTTAACG	1020
TTTGACTTAT	AAAAATGGTG	GAAACATAGA	TTAAGTTATT	AAGGGCGCAC	GGTGGATGCC	1080
TTGGCACTAG	AAGCCGATGA	AGGACGTTAC	TAACGACGAT	ATGCTTTGGG	GAGCTGTAAG	1140
TAAGCTTTGA	TCCAGAGATT	TCCGAATGGG	GAAACCCAGC	ATGAGTTATG	TCATGTTATC	1200
GATATGTGAA	TACATAGCAT	ATCAGAAGGC	ACACCCGGAG	AACTGAAACA	TCTTAGTACC	1260
CGGAGGAAGA	GAAAGAAAAT	TCGATTCCCT	TAGTAGCGGC	GAGCGAAATG	G	1311

(2) INFORMATION FOR SEQ ID NO: 3542:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3542:

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	CGCTAGAGTA GAACGTTGCC AGGCAAATGA CAAATCGGAG AATTAGCTCA GCTGGGAGAG	120
	CATCTGCCTT ACAAGCAGAG GGTCGGCGGT TCGAACCCGT CATTCTCCAC CATTTATTCT	180
5	TAGATATAGC CGGCCTAGCT CAATTGGTAG AGCAACTGAC TTGTAATCAG TAGGTTGGGG	240
	GTTCAAGTCC TCTGGCCGGC ACCATCTTTT GAGCCATTAG CTCAGCTGGT AGAGCATCTG	300
	ACTITIAATC AGAGGGTCAG AGGTTCGAAT CCTCTATGGC TCATTACGAT TTAATTTITA	360
10	TATTTAGCAA AATAATGCAG AAGTAGTTCA GCGGTAGAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3543:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 804 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3543:	
	GTGAGAGTGA CGTTATGTTA TGTAAATAAC AGTTAATTAT ACCGGTGGTC GGGGTCGAAC	60
25	CGCACTCCAC AAGTGGAAGA GATTTTGAGT CCCGCGCGTC TGCCAATTCC GCCACACCGG	120
	CTTAATGGTA AACAAAAAAC TTCCCTTTGG AAGCAATTAT GGAGCGGAAG ATAGGATTTA	180
30	CACCTATACC TCGTTCCGGG aAGGAACtGg TTCTAAAAGT TGAACTACTC CCGCAAATAT	240
	TAAATTATGG AGCGGAAGAT AGGATTTACA CCTATACCTC ATTCCAGGAA GGAATGTATT	300
	CTAAGAGTTG AAATACTCCC GCATTATTAT TAAATTATGG AGCGGAAGAT AGGATTTGCA	360
35	CCTATACCTC GTTCCGGGAA GGACKTGTTL CTAAAAGTTG AACTACTCCC GCATAAACCT	420
	GGAGGCGGCA ACCGGATTTG AACCGGTGAT AAAGGTTTTG CAGACCTCTG CCTTACCACT	480
	TGGCTATGCG CCAATAACTG GGCTAGCTGG ATTCGAACCA ACGAGTGACG GATMAAAGTC	540
10	CGTTGCCTTA CCGCTTGGCT ATAGCCCCATT AATAATAAGG GCGGCTGAAG GGGATCGAAC	600
	CCTCGAATGT CGGAACCACA ATCCGATGTG TTAACCACTT CACCACAGCC GCCATGGCAG	660
45	GGGCAGTAGG AATCGAACCC ACACCAAAGT TTTGGAGACC TCTATTCTAC CGTTGAACTA	720
	TGCCCCTATT AAAAATAATA ATKGGAGGGG GGCAGATTCG AAnTGCCGAA CCCGAAGGAG	780
	CGGGATTTAC ATTCCGCCGG GTTT	804
50	(2) INFORMATION FOR SEQ ID NO: 3544:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3544:	
	ATGATGTCGT TGCACAATCA ATTGATAAAT TACATTATAG CTTTAATCGT TTGAAGTATA	60
5	GTTTGAAACC AGTAGTCACA GCTGTTCAAG GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG	120
	TACTITACTC ACCTATIGIT GICGCIGCAA GIGAAACATA TATCGGICTT GITGAAGCAG	180
10	GTGTTGGCTT ATTACCGAGT GGCGGTGGCC TTGCAGAAAT GGCTGATCGC ATATTACGCA	240
	CATCGCATAA GTTTGATKAC AAACAAGCTT CCATGACAAA AGTACTGACG AATATCGCAT	300
,	TTGCGAAAGT CTCTACAAAT GCCTTTGAGG CACGTCGTTA TGGTTATTTA CGTGGATACA	360
15	GATACGATTA TTTTCAATAC AGCACAACGT GTCCGAAGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3545:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3545:	
	CCGGCATTCT CACTTCTAAG CGCTCCACAT GTCCTTACGA TCATGCTTCA ACGCCCTTAG	60
30	AACGCTCTCC TACCATTGTC CAAAGGNATC nCACAGCTTC GGTAATATGT TTAGCCCCGG	120
	TACATTTTCG GCGCAGTGTC ACTCGACTAG TGAGCTATTA CGCACTCTTT AAATGATGGC	180
	TGCTTCTAAG CCAACATCCT AGTTGTCTGG GCAACGCaCA TCCTTTTCCA CTTAACATAT	240
35	ATTITGGGAC CTTAGCTGGT GGTCTGGGCT GTTTCCCTTT CGAACACGGA CCTTATCACC	300
	CATGITCIGA CTCCCAAGIT AAATTAATIG GCATTCGGAG TITGICTGAA TTCGGTAACC	360
	CGAGAGGGC CCCTCGTCCA AACAGTGGCT CTACCTCCAA TAATCATCAn TTGAGGCTAG	420
40	CCCTAAAGCT AATTCGGAGA GAACCAGTAT CTCCAGTTCG ATTGGAATTC TnCG	474
	(2) INFORMATION FOR SEQ ID NO: 3546:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3546:

	GCAATTCGTA AAGTTGAAAC ATCAACATTA GGTGAAGAAA GTGAAAATGA CTTTATCGGT	12
	CTGTTCAGCG ATATGGATTT GAGTTCAACG CGACTAGGTA ACAATGTCAA AGAACGTACT	18
5	GCTTTAATCT CTAAAGTCAT GGTTAATCTT GACGACTTAC CATTCGTTCA CAGTGACATG	240
	GAAATTGATA TGTTAGGTGA TGCATATGAA TTCCTAATTG GGCGCTTTGn GCGACACGGG	300
10	TAAAAAAAGC AGGCGAGTTC TATACACCAC AACAAGTATC TAAGATACTG GCGAGATTGT	360
	CACAGACGGT AAAGATAAnT ACGTCACGTG TATGACCCAA	400
	(2) INFORMATION FOR SEQ ID NO: 3547:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3547:	
	AACGTTTTCA CTTCGCCAAG CCATTTTTCT TTGTGTTTAC TTTTTATTTT GACGTTTTAG	60
25	ACATAAAAA AAGAGACCTT GCGGTCTCAA TGCGGCTCAT CGCATCCATT TTTTGCCTGG	120
	CAACGTTCTA CTCTAGCGGA ACGTAAGTTG GCTACCATCG ACGCTAAGAA CCTTTCTTGA	180
30	CTTGTGÄCAA TCGCTTGCTT CTTCCTCTT CTTCGGCTCT CGCTTACTCA TTTAGCTCTA	240
	CTAAACTCGT TGCGCTCTTT TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC	300
	CATTITICIT TGTGTTTGCT TTTTATTTTG ACGTTTTAGA CATAAAAAA AGAGACCTTG	360
35	CGGTCTCAAT GCGGCTCATC GCATCCANTT TTTGCCTGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3548:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3548:	
	ATGATGTCGT TGCACAATCA ATTGATAAAT TACATTATAG CTTTAATCGT TTGAAGTATA	60
50	GTTTGAAACC AGTAGTCACA GCTGTTCAAG GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG	120
	TACTITACTC ACCTATTGTT GTCGCTGCAA GTGAAACATA TATCGGTCTT GTTGAAGCAG	180
	GTGFTGGCTT ATTACCGAGT GGCGGTGGCC TTGCAGAAAT GGCTGATCGC ATATTACGCA	240

	TIGGAAAGIC TCTACAAATG CCTTTGAGGC ACGTCGTTAT GGTTATTTAC GTGATACAGA	360
	TACGATTATT TTCAATACAG CACAACGTGT CCGAAGTTGG	400
5	(2) INFORMATION FOR SEQ ID NO: 3549:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3549:	
	AGGITACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTGG TGTGACGGGC GGTGTGTACA	60
	AGACCCGGGA ACGTATTCAC CGTAGCATGC TGATCTACGA TTACTAGCGA TTCCAGCTTC	120
20	ATGTAGTCGA GTTGCAGACT ACAATCCGAA CTGAGAACAA CTTTATGGGA TTTGCTTGAC	180
	CTCGCGGTTT CGCTGCCCTT TGTATTGTCC ATTGTAGCAC GTGTGTAGCC CAAATCATAA	240
	GGGGCATGAT GATTTGACGT CATCCCCACC TTCCTCCGGT TTGTCACCGG CAGTCAACTT	300
25	AGAGTGCCCA ACTTAATGAT GGCAACTAAG CTTAAGGGTT GCGCTCGTTG CGGGACTTAA	360
	CCCAACATCT CACGACACGA GCTGACGACA ACCATGCACC	400
30 35	(2) INFORMATION FOR SEQ ID NO: 3550: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3550:	
40	CGAACGGACG AGAAGCTTGC TTCTCTGATG TTAGCGGCGG ACGGGTGAGT AACACGTGGA	60
	TAACCTACCT ATAAGACTGG GATAACTTCG GGAAACCGGA GCTAATACCG GATAATATTT	120
	TGAACCGCAT GGTTCAAAAG TGAAAGACGG TCTTGCTGTC ACTTATAGAT GGATCCGCGC	180
45	TGCATTAGCT AGTTGGTAAG GTAACGGCTT ACCAAGGCAA CGATGCATAG CCGACCTGAG	240
	AGGGTGATCG GCCACACTGG AACTGAGACA CGGTCCAGAC TCCTACGGGA GGCAGCAGTA	300
50	GGGAATCTTC CGCAATGGGC GAAACCTGAC GGAGCAACGC CGCGTGAGTG ATGAAGGTCT	360
	TCGGATCGTA AAACTCTGTT ATTAGGGAAG AACATATGTG	400
	(2) INFORMATION FOR SEQ ID NO: 3551:	

5	(A) LENGTH: 506 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: lin ar	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3551:	
10	ACAAGGTAGC CGTATCGGAA GGTGCGGCTG GATCACCTCC TTTCTAAGGA TATATTCGGA	60
	ACATCTTCTT CAGAAGATGC GGAATAACGT GACATATTGT ATTCAGTTTT GAATGTTTAT	120
	TTAACATTCA AATATTTTTT GGTTAAAGTG ATATTGCTTA TGCGAGCGCT TGACAATCTA	180
15	TTCTTTTTAA AGAAAGCGGT TGTTAGACAA TGCATTAAGA AAAATTAAAG CGGAGTTTAC	240
	TTTTGTAAAT GAGCATTTGA TTTTTTGAAA ATAAAGCAGT ATGCGAGCGC TTGACTAAAA	300
	AGAAATTGTA CATTGAAAAC TAGATAAGTA AGTBAAATAT AGATTTTACC AAGCAAAACC	360
20	GAGTGAATAA AGAGTTTTAA ATAAGCTTGA ATTCATAAGA ATAATCGCTA GTGTTCGAAA	420
	GAACACTCAC AAGATTAATA ACGCGTTTAA ATCTTTTTAT AAAAGANAAC GTTTAGCAGA	480
25	CAATGAGTTA AATTATTTTA AAGCAG	506
	(2) INFORMATION FOR SEQ ID NO: 3552:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3552:	
	AAGCTGAGGC CGACAGTGGN GCGATGGATA ACAGGTTGAT ATTCCTGTAC CACCTATAAT	60
40	CGTTTTAATC GATGGGGGA CGCATAGGAT AGGCGACGTG TCGATTGGAT TGCACGTCTA	120
40	AGCAGTAAGG CTGAGTATTA GGCAAATCCG GTACTCGTTA AGGCTGAGCT GTGATGGGGA	180
	GAAGACATTG TGTCTTCGAG GTCGTTGATT TCACACTGCC GAGAAAAGCC TCTAGATAGA	240
45	AAATAGGTGC CCGTACCGCA AACCGACACA GGTAGTCAAG ATGAGAATTC TAAGGTGAGC	300
	GAGCGAACTC TCGTTAAGGA ACTCGGCAAA ATGACCCCGT AACTTCGGGA GAAGGGGTGC	360
	TCTTTAGGGT TAACGCCCAG AAGAGCCGCA GTGAATAGGC CCAAGCGACT GTTTATCAAA	420
50	AACACAGGTC TCTGCTAAAC CGTAAGtGAn TGTATAGGGG CTGACGCCTG CCCGGTGCTG	480
	GAAGGTTAAG AGGAGTGGTT AGCTTCTGCG AACTACGAAT CGAAGCCCCA GTAAACGGCG	540
	GCCGTAACTA TAACGGTCCT AAGGTAGCGA AATTCCTTGT CGGGTAAGTT CCGACCCGCA	600
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	GTGAAGATGC	AGGTTACCCG	CGACAGGACG	GAAAGACCCC	GTGGAGCTTT	ACTGTAGCCT	720
5	GATATTGAAA	TTCGGCACAG	CTTGTACAGG	ATAGGTAGGA	GCCTTTGAAA	CGTGAGCGCT	780
	AcTTaCgTGG	aggcgctggt	GGGATACTAC	CCTAGCTGTG	TTGGCTTTCT	AACCCGCACC	840
	ACTTATCGTG	GTGGGAGACA	GTGTCAGGCG	GGCAGTTTGA	CTGGGGCGGT	CGCCTCCTAA	900
10	AAGGTAACGG	AGGCGCTCAA	AGGTTCCCTC	AGAATGGTTG	GAAATCATTC	ATAGAGTGTA	960
	AAGGCATAAG	GGAGCTTGAC	TGCGAGACCT	ACAAGTCGAG	CAGGGTCGAA	AGACGGACTT	1020
	AGTGATCCGG	TGGTTCCGCA	TGGAAGGGCC	ATCGCTCAAC	GGATAAAAGC	TACCCCGGGG	1080
15	ATAACAGGCT	TATCTCCCCC	AAGAGTTCAC	ATCGACGGGG	AGGTŢTGGCA	CCTCGATGTC	1140
	GGCTCATCGC	ATCCTGGGGC	TGTAGTCGGT	CCCAAGGGTT	GGGCTGTTCG	CCCATTAAAG	1200
	CGGTACrmGg	CTGGGTTCAG	AACGTCGTGA	GaCAGTTCGG	TCCCTATCCG	TCGTGGGCGT	1260
20	AGGAAATTTG	AGAGGAGCTG	TCCTTAGTAC	GAGAGGACCG	GGATGGACAT	ACCTCTGGTG	1320
	TACCAGTTGT	CGTGCCAACG	cathagctgg	GTAGCTATGT	GTGGACGGGA	TAAGTGCTGA	1380
25	AAcATnCTnA	AGCATGAAGC	CCCCCTCAAG	ATGAGATTTC	CCAACTTCGG	TTATAAGATC	1440
25	CCTCAAAGAT	GATGAGGTTA	ATAGGTTCGA	GGTGGAAGCA	TGGTGACATG	TgGGAGCTGA	1500
	CGAATACTAA	TCGATCGAAG	ACTTAATCAA	AATAAATGTT	TTGCGACAAA	tnCaCTTTTA	1560
30	CTTACTATCT	AGTTTTGAAT	GTATAAATTA	CATTCATATG	TCTGGTGACT	ATAGCAAGGA	1620
	GGTCACACCT	GTTCCCATGC	CGAACACAGA	AGTTAAGCTC	CTTAGCGTCG	ATGGTAGTCG	1680
	AACTTACGTT	CCGCTAGAGT	AGAACGTTGC	CAGGCAGTTT	TTTAATCAAA	TTTTGGTTAA	1740
35	TAAAATAAAA	GGACAAGATA	AAAAAAGTTA	TTGACTTAAA	TGTTAATAAA	ATGTATAATT	1800
	AATTCTTGTC	GGTAAGAAAA	ATGAACATTG	AAAACTGAAT	GACAATATGT	CAACGTTAAT	1860
	TCCAAAAAAC	GTAACTATAA	GTTACAAACA	TTATTTAGTA	TTTATGAGCT	AATCAAACAT	1920
40	CATAATTTTT	ATGGAGAGTT	TGATCCTGGC	TCAGGATGAA	CGCTGGCGGC	GTGCCTAATA	1980
	CATGCAAGTC	GAGCGAACGG	ACGAGAAGCT	TGCTTCTCTG	ATGTTAGCGG	CGGACGGGTG	2040
45						GGAGCTAATA	2100
••				AAGTGAAAGA		GTCACTTATA	2160
	GATGGATCCg	CGCTGCATTA	GCTAGTTGGt	AAGGEAACGG	CTTTACCCA		2209

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(2) INFORMATION FOR SEQ ID NO: 3553:

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(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 518 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3553:	
5	CTAGATAAGT AAGTAAAATA TAGATTTTAC CAAGCAAAAC CGAGTGAATA AAGAGTTTTA	60
	AATAAGCTTG AATTCATAAG AAATAATCGC TAGTGTTCGA AAGAACACTC ACAAGATTAA	120
	TAACGCGTTT CCTGTAGGAT GGAAACATAG ATTAAGTTAT TAAGGGCGCA CGGTGGATGC	180
10	CTTGGCACTA GAAGCCGATG AAGGACGTTA CTAACGACGA TATGCTTTGG GGAGCTGTAA	240
	GTAAGCTTTG ATCCAGAGAT TTCCGAATGG GGAAACCCAG CATGAGTTAT GTCATGTTAT	300
15	CGATATGTGA ATACATAGCA TATCAGAAGG CACACCCGGA GAACTGAAAC ATCTTAGTAC	360
	CCGGAGGAAG AGAAAGAAAA TTCGATTCCC TTAGTAGCGG CGAGCGAAAC GGGAAGAGCC	420
	CAAACCAACA AGCTTGCTTG TTGGGGTTGT AGGaCACTCT ATACGGAGTT ACAAAGGmCG	480
20	ACATTrGACG AatCATCTGG gAAAGwTGaT CCAAGGAA	518
	(2) INFORMATION FOR SEQ ID NO: 3554:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 587 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3554:	
	AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG CAGATGCTCT CCCAGCTGAG	60
35	CTAATTETCC GATTTAAAAC TGCCTGGCAA CGTTCTACTC TAGCGGAACG TAAGTTBGAC	120
•	TACCATCGAC GCTAAGGAGC TTAACTTCTG TGTTCGGCAT GGGAACAGGT GTGACCTCCT	180
	TGCTATAGTC ACCAGACATA TGAATGTAAT TTATACATTC AAAACTAGAT AGTAAGTAAA	240
40	AGTGATTTG CTTCGCAAAA CATTTATTTT GATTAAGTCT TCGATCGATT AGTATTCGTC	300
	AGCTCCACAT GTCACCATGC TTCCACCTCG AACCTATTAA CCTCATCATC TTTGAGGGAT	360
	CTTATAACCG AAGTTGGGAA ATCTCATCTT GAGGGGGGCT TCATGCTTAG ATGCTTTCAG	420
45	CACTTALCCC GTCCACACAT AGCTACCCAG CTATGCCGTT GGCACGACAA CTGGTACACC	480
	AGAGGTATGT CCATCCCGGT CCTCTCGTAC TAAGGACAGC TCCTCTCAAA TTTCCTACGC	540
	CCACGACGGA TAGGGACCGA ACTGLCTCAC GACGTTCTGA ACCCAGA	587
50	(2) INFORMATION FOR SEQ ID NO: 3555:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(will CROUBLY PROGRESSION, GROUD IN NO. 2555	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3555:	
	GAATCTGAAT CGCTATCTGA ATCCGAGTCA CTGTCGGAAT CTGAGTCACT GTCGGAATCT	60
10	GAATCGCTAT CTGAATCTGA ATCGCTGTCT GAATCTGAAT CGCTGTCTGA ATCTGAGTCG	120
	CTATCTGAGT CGGAATCGCT ATCTGAGTCG GAATCACTGT CGGAATCTGA ATCGCTGTCT	180
	GAGTCGGAAT CACTGTCGGA GTCAGAATCG CTGTCTGAGT CGGAATCACT GTCGGAATCT	240
15	GAATCGCTAT CTGAATCTGA ATCGCTATCT GAATCCGAGT CACTGTCTGA GTCAGAATCG	300
	CTATCTGGAA TCTGGAGTCA CTGTCGGAAT CTGAGTCACT GGTCTGGAGT CAGAATCGCT	360
20	ATCTGGAATC CGANGTCATG GTCTGAGTCG GGAATCGCT	399
20	(2) INFORMATION FOR SEQ ID NO: 3556:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3556:	
	ATTCATCTTT CCAGATGATT CGTCTAATGT CGTCCTTTGT AACTCCGTAT AGAGTGTCCT	60
	ACAACCCCAA CAAGCAAGCT TGTTGGTTTG GGCTCTTCCC GTTTCGCTCG CCGCTACTAA	120
35	GGGAATCGAA TTTTCTTTCT CTTCCTCCGG GTACTAAGAT GTTTCAGTTC TCCGGGTGTG	180
	CCTTCTGATA TGCTATGTAT TCACATATCG ATAACATGAC ATAACTCATG CTGGGTTTCC	240
\$ 0	CCATTCGGAA ATCTCTGGAT CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG	300
	TAACGTCCTT CATCGGCTTC TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT	360
	CTATGTTTCC ATCCTACAGG AAACGCGTTA TTAATCTTGT	400
15	(2) INFORMATION FOR SEQ ID NO: 3557:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 657 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3557:

	ACAACTGGTA CACCAGAGGT ATGTCCATCC CGGTCCTCTC GTACTAAGGA CAGCTCCTCT	120
5	CAAATTTCCT ACGCCCACGA CGGATAGGGA CCGAACTGTC TCACGACGTT CTGAACCCAG	180
ŭ	CTCGCGTACC GCTTTAATGG GCGAACAGCA AnCCCTTGGG ACCGACTACA GCCCCAGGAT	240
	GCGATGAGCC GACATCGAGG TGCCAAACCT CCCCGTCGAT GTGAACTCTT GGGGGAGATA	300
10	AGCCTGTTAT CCCCGGGGTA GCTTTTATCC GTTGAGCGAT GGCCCTTCCA TGCGGAACCA	360
	CCGGATCACT AAGTCCGTCT TTCGACCCTG CTCGACTTGT AGGTCTCGCA GTCAAGCTCC	420
	CTTATGCCTT TACACTCTAT GAATGATTTC CAACCATTCT GAGGGAACLT TGAGCGCCTC	480
15	CGTTACCTTT TAGGAGGCGA CCGCCCCAGT CAAACTGCCC GCCTGACACT GTCTACCMCC	540
	ACGATAAGTG GTGCGGGTTm GMAAGCCAAC ACAGCTAGGG TAGTATCCCA CCAGCGCCTn	600
	CCCACTAATA GCGCTCACGT TTCAAAGGCT CCTACCTATC CTGTACAAGC TGTGCCG	657
20	(2) INFORMATION FOR SEQ ID NO: 3558:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558:	
	GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTAATAA	60
	TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATTCAAG TTGTTGCAAC	120
35	GCAAGGACAG CGGAGAGACA GTGAGTGATG AGCAACGTAT nnTnGATTTC ACAGTTGTCG	180
	CACCACAACC GAACCAAGCG ACTACTAAGA TTTGGCAAAA TGGTCATATT GATATCACGC	240
40	CTAATAATCC ATCAGGACAT TTAATTAATC CAACTCAAGC AATGGATATT GCTTACACTG	300
••	AAAAAGTGGG TAATGGTGCA GAACATAGTA AGACAATTAA TGTTGTTCGT GGTCAAAATA	360
	ATCAATGGAC AATTGCGAAT AAGCCTGACT ATGTAACGTT	400
45	(2) INFORMATION FOR SEQ ID NO: 3559:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3559:

	CGACACAAAA CAAGCCAAGC AAAACAAACG CATATAACGT AACAACACAT GGAAACGGCC	120
	AAGTATCATA TGGCGCTCGC CAACACAAAA CAAGCCAAGC	180
5	AACAACACAT GCAAACGGTC AAGTGTCATA CGGAGCTCGC CCGACATACA AGAAGCCAAG	240
	TAAAACAAAT GCATACAATG TAACAACACA TGCAGATGGT ACTGCGACAT ATGGGCCTAG	300
10	AGTAACAAAA TAAGTTTGTA ACTCTATCCA AAGACATACA GTCAATACAA AACATTACGT	360
••	ATCTTTACAA CAGTAATCAT GCATTCTATG ATGCTTCTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3560:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3560:	
	TTTAGGTTAT ACAGCATTGC AGGCAGGATA CTTATCAATT ACTTATTAA TCATGGTGTT	60
25	ATTGATGATT CGAGTTGGTG AAAAATTATT ACAAAAAATG GGTTCTAAGC GACCAATGTT	120
	ATTAGGTACA TTCATTGTGG TCATTGGTAT TGCACTTATT TCATTAGTAT TCTTACCAGG	180
30	CATATTTTAT GTTATCAGTT GTGTCGTAGG ATATTTATGT TTCGGACTAG GCTTAGGTAT	240
	TTATGCAACA CCTTCTACAG ATACAGCTAT TTCGAATGCA CCGTTAGATA AAGTTGGCGT	300
	TGCTTCAGGT ATTTATAAAA TGGCTTCATC ACTTGGTGGG CGCATTCGGT GTCGCAATTA	360
35	GTGGTGCTGT ATATGCTGGT GCAGTTGCTG CAACGAGCAT TCCATACAGG TGCGATGATT	420
	GCACTTTGGG TTAACGTATT GAATGGGGAA TCCATGGCCA TTTATCGCAA TTTTAATnCG	480
	CGATT	485
40	(2) INFORMATION FOR SEQ ID NO: 3561:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 463 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3561:	
	AAATTATGTG AAGTAAAAGG AGTACGTCCA TGCAAAATTT AGATAAGAAT TTTCGACATT	60
	TATCECGTAA AGAAAAGTTA CAACAATTGG TTGATAAGCA ATGGTTATCA GAAGAACAAT	120

	ATTACATESE GEAMOGISCA TIACECGIIG GATTAITACE GAATATEATT GIGGAEGATA	240
	AGGCATATGT TGTACCTATG ATGGTGGAAG AGCCTTCAGT TGTCGCTGCA GCTAGTTATG	300
6	GTGCAAAGCT AGTGAATCAG ACTGGCGGAT TTAAAACGGT ATCTTCTGAA CGTATTATGA	360
	TAGGTCAAAT CGTCTTTGAT GGCGTTGACG ATACTGAAAA ATTATCAGCA GACATTAAAG	420
10	CTTTAGAAAA GCAAATTCAT AAAATTGCGG ATGAGGCATA TCC	463
	(2) INFORMATION FOR SEQ ID NO: 3562:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 643 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3562:	
	AATTTAAACC CAATTGTCTG GCAAAACGTT TTCCTTTATA AAAAGATTTA AACGCGTTAA	60
	TTAATCTTGG TGCnGGTCTT TCGAACACTA GCGATTATTT CTTATGAATT CAAGCTTATT	120
25	TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATTTTACTT ACTTATCTAG	180
	TTTTCAATGT ACAATTTCTT TTTAGTCAAG CGCTCGCATA CTGCTTTATT TTCAAAAAAT	240
30	CAAATGCTCA TTTACAAAAG TAAACTCCGC TTTAATTTTT CTTAATGCAT TGTCTAACAA	. 300
	CCGCTTTCTT TAAAAAGAAT AGATTGTCAA GCGCTCGCAT AAGCAATATC ACTTTAACCA	360
	AAAAATATTT GAATGTTAAA TAAACATTCA AAACTGAATA CAATATGTCA CGTTATTCCg	420
35	CATCTTCTGA AGAAGATGTT CCGAATATAT CCTTAGAAAG GAGGTGATCC AGCCGCACCT	480
	TCCGATACGG CTACCTTGLT ACGACTTCAC CCCAATCATT TGTCCCACCT TCGACGGCTA	540
40	GCTCCTAAAA GGTTACTCCA CCGGCTTCGG GTGTTACAAA CTCTCGTGGT GTGACGGGCG	600
40	GTGTGTACAA GACCCGGGAA CGTATTCACC GTAGCATGCC TCG	643
	(2) INFORMATION FOR SEQ ID NO: 3563:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3563:	
<i>55</i>	GATAAATCCA AATAGTGCAC TATAAAAAAT AATATCTACT AAAGTATCTT TATGTAATCC	60

	TTCCATACCA TCGTACACTC AGTGGTCCTA AGTTAAATGC CACAGGATCT ATATAGTTAA	180
	ATACAATACC CATTCAACCT ACTCCTCACT CTTATGACTG TTCTTGATAA TTTCTTCATT	240
5	TAATCTTTCA CTAAATTCTT CGGCCGTGTT AATGCCCATG ATATTTAATC GATAGTTCAT	300
	TGCAGCGACC TCAATAATTA CCGCAACATT TCTACCAGGT CTTACAGGTA TTGGTTTTTT	360
10	TTAGTGGnTT TCAGTATCTA AAATACTTAG CGTCTCTTCA	400
	(2) INFORMATION FOR SEQ ID NO: 3564:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3564:	
	TCGTCAGCnc nTGTCGTGAG ACGTTGGGTT AAGTCCCGCA ACGAGCGCAA CCCTTAAGCT	60
	TAGTTGCCAT CATTAAGTTG GGCACTCTAA GTTGACTGCC GGTGACAAAC CGGAGGAAGG	120
25	TGGGGATGAC GTCAAATCAT CATGCCCCTT ATGATTTGGG CTACACACGT GCTACAATGG	180
	ACAATACAAA GGGCAGCGAA ACCGCGANGT CAAGCAAATC CCATAAAGTT GTTCTCAGTT	240
30	CGGATTGTAG TCTGCAACTC GACTACATGA AGCTGGAATC GCTAGTAATC GTAGATCAGC	300
	ATGCTACGGT GAATACGTTC CCGGGTCTTG TACACACCGC CCGTCACACC ACGAGAGTTT	360
	GTAACACCCG AAGCCGGTGG AGTAACTTTT AGGAGCTAGC	400
35	(2) INFORMATION FOR SEQ 1D NO: 3565:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3565:	
	CAAACCATTT GTAGCTATTT GTAACTCTTA TATTGATATT GTTCCTGGAC ATGTTCACTT	60
	GAGAGAGCTT GCAGATATAG CTAAAGAAGC AATTAGAGAA GCCGGTGCCA TTCCATTTGA	120
50	ATTCAATACA ATTGGTGTTG ATGATGGAAT AGCTATGGGA CATATCGGAA TGCGATATTC	180
	TCTACCATCA CGTGAAATTA TTGCAGATGC AGCTGAAACT GTAATTAACG CTCATTGGTT	240
	TGACGGCGTA TTTTACATTC CTAATTGTGA CAAGATTACA CCCGGTATGA TTTTAGCAGC	300

	TGCACATGGA AAAGCATTAA CACTTTCATC AATGTTTGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3566:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3566:	
15	AAATTACGTA CALATTTAAA GCTGACGGCA CTATGACTGC AGGAACATCT GCCCCACTTT	60
	CTGATGGTGC AGGATTTGTA GTTTTAATGT CTGGAGATAA AGTGAAAGAA CTCGGCGTGA	120
	CACCTATTGC ACGATTCGTT GGTTTTAAGG CAGTAGGCGT TGACCCGAAA ATTATGGGTA	180
20	TTGGGCCTGC ATATGCGATT CCTGAAGTAT TGTCACTCAG CAATCTATCT GTTGAAGACA	. 240
	TTGATTTGAT CGAATTGAAC GAAGCATTTG CTTCTCAAAC GATTGCATCT ATTAAAGAAG	300
	TAGGTCTAGA TATATCACGT ACGAATGTGA ATGGTGGCGC TATTGCTTKA GGTCATCCAT	360
25	TAGGTGCTAC AGGCGCAATG TTAACCGCGC GTTTACLTAA TGAAATGGGT AGACGTCCCG	420
	(2) INFORMATION FOR SEQ ID NO: 3567:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3567:	
	TACGGGAAGT AGCTCAGCTT GGGTAGAGCA CTTGGTTTGG GACCAAGGGG TCGCAGGTTC	60
40	GAATCCTGTC TTCCCGATAT ACTGTAATTA TTATGGGGGC TTAGCTCAGC TGGGAGAGCG	120
	CCTGCTTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTA GTCTCCACCA TATTATTTAC	180
45	AAACTATATA AGGCGGTGTA GCTCAGCTGG CTAGAGCGTA CGGTTCATAC CCGTGAGGTC	240
45	GGGGGTTCGA TCCCCTCCAC CGCCACTATT TATTAGTTGT AAAATTATAT TTAGGACCTT	300
	TAGCTCAGTT GGTTAGAGCT AACGGCTCAT AACCGTTCGG TCGCAGGTTC GAGTCCTGCA	360
50	GGTCCCATAT AATTTTGGAG GAATACCCAG TCCGGCTGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3568:	
EE	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3568:	
	TTAGCCAATC CCCATTCTGG ACGTACCTCA CTCCAATCAC TCGCAAACCG CTGCGCTTCT	60
10	TCCACTGGAT GATTCACACG ACCAATCGTT GGCAGTTTGT CCAAACGTTC GCGATTCGGT	120
	GTTTCAGAAA TCATCGGCAT CGCGTCATTC AATGATTCAT ATGCATCTAA AGCAATAGAA	180
	GATAATGTGT CTGGCACATA TACCCATGCC AACGTATCAG TAGACGTATG ATGTTCTGCT	240
15	ACCGCAAAAA CAGTTGTCTC TGGANTATAC ACACCTGATT GTTTTAATCC TTGTCTGACA	300
	TTTGGACGAT TACATATCAT CGCTAATAAC TTAGCATTNA AAACCGCTTG ATGCGCCACC	360
	ACAAGCCCCA CATTTCAAGT GATGGCATGG nTGTGGGTTn	400
20	(2) INFORMATION FOR SEQ ID NO: 3569:	
25	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3569:	
	CCCCGACCTC ACGGGTATGA ACCGTACGCT CTAGCCAGCT GAGCTACACC GCCTTATATA	60
	GTTTGTAAAT AATATGGTGG AGACTAGCGG GATCGAACCG CTGACCTCCT GCGTGCAAAG	120
35	CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC ATAATAATTA CAGTATATCG GGAAGACAGG	- 180
	ATTCGAACCT GCGACCCCTT GGTCCCAAAC CAAGTGCTCT ACCAAGCTGA GCTACTTCCC	240
40	GTATAATTAA CGCGCCCGAT AGGAGTCGAA CCCATAACCT CTTGATCCGT AGTCAAACGC	300
40	TCTATCCAAT TGAGCTACGG GCGCATATGT TTTTATTGAA AATGGTGCCG AGGACCGGAA	360
	TCGAACCGGT ACGTGATCAC TCACCGCAGA TTTTAAGTCC	400
45	(2) INFORMATION FOR SEQ ID NO: 3570:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 542 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3570:

	GTTTTTATCC GTTGAGCGAT GGCCnTCCCA TGGGGACCTA CCGGATCACT AAGTCCGTCT	120
_	TTTCGACCCT GCTTCGACTT GTAGGTCTCG CAGTCAAGCT CCCTTATGCC TTTACACTCT	180
5	ATGAATGATT TCCAACCATT CTGAGGGAAC CTTTGAGCGC CTCCGTTACC TTTTAGGAGG	240
	CGACCGCCCC AGTCAAACTG CCCGCCTGAC ACTGTCTCCC ACCACGATAA GTGGTGCGGG	300
10	TTAGAAAGCC AACACAGCTA GGGTAGTATC CCACCAGCGC CTCCACGTAA GYTAGCGCTC	360
	ACGTTTCAAA GGCTCCTACC TATCCTGTAC AAGCTGTGCC GAATTTCAAT ATCAGGCTAC	420
	AGTAAAGCTC CACGGGGTCT TTCCGTCCTG TCGCGGGTAA CCTGCATCTT CACAGGTACT	480
15	ATGATTTCAC CGAGTCTCTC GTTGAGACAG TGCCCAAATC GTTACGCCTT TCGTGCGGGT	540
	cc `	542
	(2) INFORMATION FOR SEQ ID NO: 3571:	
20 '	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 619 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3571:	
30	ATGCCCGACC ACATGGAGCT TCCAATCCCA TTGCTCTAAC CAATGAGCTA CTGAACCATa	60
	aTaAAAATGT AAtGATGGCG GTCTCGACGG GAATCGAACC CGCGATCtCn GCGTGACAGG	120
	CAGGCGTGTT AACCCCTACA CTACGAGACC TATAAAATAT TGCGGGAGGC GGATTTGAAC	180
35	CACCGGACTT CGGGTTATGA GCCCGACGAG CTACCGAACT GCTCCATCCC GCGATAATAA	240
	AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGC CCGTTAAGGC CCTGTCGGTT	300
40	TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC ATTATTATAG GTAAATCGCT	360
	ATTAATTATA AAATTAAATG GCGGTCTCGA CGGGAATCGA ACCCGCGATC TCCTGCGTGA	420
	CAGGCAGGCG TGTTAACCGC TACACTACGA GACCATTAGT AAAACGGAGG AAGAGGGATT	480
45	CGAACCCCC CGAGCCGTTA AGCCCCTGTC GGTTTTCAAG ACCGATCCCT TCAGCCGGAC	540
	TTGGGTATTC CTCCAAAATT ATATGGACCT TGCAGGACTC GAACCTKCGA CCGAACGGTT	600
	ATGAGCCGTT AGCTCTAAC	619
50	(2) INFORMATION FOR SEQ ID NO: 3572:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3572:	
	GGTGAAGACA TCACGTATCA AGAAGCATGG GCAGATGAAG AATATCGTGA AGACTTAAAA	-60
5	GCAGAATTAA TTGATCAAGC GGTTACTTCA TTGAGCCACA AGATTTATTC AGTGCGATGA	120
	TTCGTGAAAT TGAAACGCAA GATTTCGATA TAGAACATCT AGCGACGGCG ATTCGCAAAG	180
10	TTGAAACATC TACATTAGGT GAAGAAAGTG AAAATGACTT TATCGGGCTG TTCAGCGATA	240
•	TGGATTTGAG TTCAACGCGA CTAGGTAACA ATGTCAAAGA ACGTACTGCT TTAATCTCTA	300
	AAGTCATGGT TAATCTTGAC GACTTACCAT TCGTTCACAG TGACATGGAA ATTGATATGT	360
15	TAGGTGATGC ATATGAATTC CTAATCGGGC GCTTTGCGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3573:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3573:	
	CAAATCGTAA CTCGCCGGTT CATTCTACAA AAGGCACGCC ATCACCCATT AACGGGCTCT	60
10 ·	GACTACTTGT AAGCACACGG TTTCAGGTTC TATTTCACTC CCCTTCCGGG GTGCTTTTCA	120
	CCTTTCCCTC ACGGTACTGG TTCACTATCG GTCACTAGAG AGTATTTAGC CTTAGGAGAT	180
	GGTCCTCCCA GATTCCGACG GAATTTCACG TGCTCCGTCG TACTCAGGAT CCACTCAAGA	240
15	GAGACAACAT TTTCGACTAC AGGATTATTA CCTTCTTTGA TTCATCTTTC CAGATGATTC	300
	GTCTAATGTC GTCCTTTGTA ACTCCGTATA GAGTGTCCTA CAACCCCAAC AAGCAAGCTT	360
10	GTTGGTTTGG GGCTCTTCCC ATTTCGCTCG CGGCTACTAA	400
•	(2) INFORMATION FOR SEQ ID NO: 3574:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1051 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
io	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3574:	
	TCCCTCAAAG ATGGATGAGG TTAATAGGTT CGAGGTGGAA GCATGGTGAC ATGTGGCAGC	60

	TITACITACT	ATCTAGTTTT	GAATGTATAA	ATTACATTCA	TATGTCTGGT	GACTATAGCA	180
5	AGGAGGTCAC	ACCTGTTCCC	ATGCCGAACA	CAGAAGTTAA	GCTCCTTAGC	GTCGATGGTA	240
J	GTCGAACTTA	CGTTCCGCTA	GAGTAGAACG	TTGCCAGGCA	TAATATTAAT	CCACAGTAGC	300
	TCAGTGGTAG	AGCTATCGGC	TGTTAACCGA	TCGGTCGTAG	GTTCGAGTCC	TACCTGTGGA	360
10	GCCATGGCTC	cTtGGTCAAG	CGGTTAAGAC	ACCGCCCTTT	CACGGCGGTA	ACACGGGTTC	420
	GAGTCCCGTA	GnAGTCATTA	TTTTGGAGAA	TTAGCTCAGC	TGGGAGAGCA	TCTGCCTTAC	480
	AAGCAGAGGG	TCGGCGGTTC	GAACCCGTCA	TTCTCCACCA	TTTTGATTAT	TAAATTATAT	540
15	GAATAAGCTG	GAGGGGTAGC	GAAgTGGCTA	AACGCGGCGG	ACTGTAAATC	CGCTcCTTCG	600
	GGTTCGGCAG	TTCGAATCTG	CCCCCTCCA	CCATCTATAT	ATTGGGCTAT	AGCCAAGCGG	660
	TAAGGCAACG	GACTTTGACT	CCGTCACTCG	TTGGTTCGAA	TCCAGCTAGC	CCAGCCATTA	720
20	GAGCCATTAG	CTCAGTTGGT	AGAGCATCTG	ACTTTTAATC	AGAGGGTCAG	AGGTTCGAAT	780
	CCTCTATGGC	TCACTACTTG	CACTTTCCAT	TTTTGGGAAG	TGCTTTTTTT	TAGGTTCTcC	840
25	ACCAAATGTG	GTGGGLATAT	AATTTAAA GA	ACTATTTTTA	AAATACAACT	TTTAGAGCTT	900
	TTATTATTAG	GCGGCCAGTC	CATTATTGGG	CTTGGTTGTC	TTCTTTTTTT	CTCCTTTGtA	960
	CAAGCTGAAA	ATCATCATTA	TACGTGCLTA	AAGTGTGAAA	TTTCTGTAAC	CAAAAGAATn	1020
30	CACTTGATTA	ATTINIATOTA	TATAATGCCT	С			. 1051

(2) INFORMATION FOR SEQ ID NO: 3575:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 476 base pairs

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3575:

GTGGAGCGCT TAGAAGTGAG AATGCAAGTG TGAGTAGCGA AAGACGGGTG AGAATCCCGT 60 CCACCGATTG ACTAAGGTTT CCAGAGGAAG GCTCGTCCGC TCTGGGTTAG TCGGGTCCTA 120 AGCTGAGGCC GACACGTATG GCGATGGATA ACAGGTTGAT ATTCCTGTAC CACCTATAAT 180 CGTTTTAATC GATGGGGGA CGCATAGGAT AGGCGACGTG BCGATTGGAT TGCACGTCTA 240 AGCAGTAAGG CTGAGTATTA GGCAAATCCG GTACTCGTTA AGGCTGAGCT GTGATGGGGA 300 GAAGACATTG TGTCTTCGAG TCGTTGATTT CACACTGCCG AGAAAAGCCT CTAGATAGAA 360 AATAGGTGCC CGTaCCGCAA AACCGACACA GGTAGTCCAA GATGnGAATT CTAANGTGAA 420

(2) INFORMATION FOR SEQ ID NO: 3576:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3576:	
	TTTGTTCCTT TTTTAATTTA TATATTTAAA ATACACATAT TCAAGAGCTC GAGATATAAG	60
15	TCAATGTACT AGGCACACAA TTTAATATTG ACAGTAATTA ACCGAACGAA AATGCGCCCC	120
	GGGGCCCCAA CATAGAGAAT TTCGAAAAGA AATTCTACAG ACAATGCAAG TTGGCGGGGC	180
	CCCAACATAG AAGCTGGCCA ATAGTTAGCT TTCAATAATG TGCAAGTTGG GGTAAGGGCC	240
20	CCAACACAGA AGCTGGCCAA TAGTCAGCTT TCAATAATGT GCAAGTTGGG GTAAGGGCCC	300
	CAACACAGAG AATTTCGAAA AGAAATTCTA CAGACAATGC AAGTTGGCGG GGCCCCAACA	360
	CAGAAGCTGG GCCAATAGTC AGCTTTTCCA ATAATGTGGC	400
25	(2) INFORMATION FOR SEQ ID NO: 3577:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3577:	
	TGCATCTTCA CAGGTACTAT GATTTCACCG AGTCTCTCGT TGAGACAGTG CCCAAATCGT	60
	TACGCCTTTC GTGCGGGTCG GAACTTACCC GACAAGGAAT TTCGCTACCT TAGGACCGTT	120
40	ATAGTTACGG CCGCCGTTTA CTGGGGCTTC GATTCGTAGC TTCGCAGAAC TAACCACTCC	180
	TCTTAACCTT CCAGCACCGG GCAGGCGTCA GCCCTATACA TCACCTTACG GTTTAGCAGA	240
45	GACCTGTGTT TTTGATAAAC AGTCGCTTGG GCCTATTCAC TGCGGCTCTT CTGGGCGTTA	300
45	ACCCTAAAGA GCACCCCTTC TCCCGAAGTT ACGGGGTCAT TTTGCCGAGT TCCTTAACGA	360
	GAGTTCGCTC GCTCACCTTA GAATTCTCAT CTTGACTAAC	400
50	(2) INFORMATION FOR SEQ ID NO: 3578:	
65	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3578:	
_	TAACTTAACA CGACTTCTTA AGTCATTTAG TTTTAATGTT TGATGTGTTT CTGCTAAACC	60
5	AATCTCCCAA GGAACACCGG CATGCTGAAT ACTCGTTTTG GGTGAAGCCC TGTACCACCA	120
	TCGTAACCAC TGATGACAAT TTTATCTGCA AATGCTTTTG CCACCCCAGA TGCAATGGTA	180
10	CCAACACCTG TTTTCGAAAC TAATTTTACC GCGATATCTG CATCTTTATT CGCATTTTTC	240
	AAATCATGTA TCAGTTGCGC TAAATCTTCT ATTGAATAAA TATCATGATG TGGCGGTGGT	300
	GAAATCAGAC CGATACCTGG CGTTGGACCC TCTTGTCTTC GCAATCCACG GATATACCTT	360
15	AGTACCAGGT AATTGGACCA CCTTCACCAG GCTTTGCACC	400
	(2) INFORMATION FOR SEQ ID NO: 3579:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3579:	
-	AGCTACACCG CCTTATATAG TTTGTAAATA ATATGGTGGA GACTAGCGGG ATCGAACCGC	60
30	TGACCTCCTG CGTGCAAAGC AGGCGCTCTC CCAGCTGAGC TAAGCCCCCA TAATAATTAC	120
	AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC AAGTGCTCTA	180
	CCAAGCTGAG CTACTTCCCG TATAATTAAC GCGCCCGATA GGAGTCGAAC CCATAACCTC	240
35	TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTT TTTATTGAAA	300
	ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGATCACT CACCGCAGGA TTTTAAGTCC	360
	TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAT	400
40	(2) INFORMATION FOR SEQ ID NO: 3580:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3580:	
50	ACGTARATAR CCATARCGAC GTGCCTCARA GGCATTTGTA GAGACTTTCG CARATGCGAT	60
	MCGIMMINA CCMIMCOME GIGCETCHAN GGENIIIGIA GAGACIIICG CAMAIGCGAI	90

•	TATGCGATCA GCCATTTCTG CAAGGCCACC GCCACTCGGT AATAAGCCAA CACCTGCTTC	180
	AACAAGACCG ATATATGTTT CACTTGCAGC GACAACAATA GGTGAGTAAA GTACAAGCTC	240
5	ACAGCCACCG CCTAAGGCAC GACCTTGAAC AGCTGTGACT ACTGGTTTCA AACTATACTT	300
	CAAACGATTA AAGCTATAAT GTAATTTATC AATTGATTGT GCACGACATC ATCTACAAGA	360
10	CCGTCTTCCA TGCGCCTTTT TCCATTAAGA AAGGGTTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3581:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3581:	
	ATGTCATTGT TGGTACGGCT TTTCCAGAAG GATTACAAGG CCAAAACATT GCACGAACGA	60
	TTGCATTGCG TGCGGATTAT CTGACACGGT ACCGGGTCAA ACAGTGAATC GCTACTGCTC	120
?5	ATCAGGATTA CARACCATGC GATTGCAGCC AATCAAATTA TGGCTGGTCA AGGAGATATA	180
,	CTTGTAGCTG GTGCGTTGAA TTGATGAGTG CCGTACCAAT GGGTGGCAAC GAGCCCACAA	240
30	ACANTCCAAC CTTACAATAT GATGATATAG GTGCGTCATA TCCTATGGGT TTAACTGCTG	300
	AAAATGTAGC ATCCCAATTT GACGTATCAC GCGAAGATCA AGATGCTTAT GCTGTCAGAA	360
	GTCATCAACG TGCCTATGAC GCACAACGTG ATGGGTCCGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3582:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3582:	
	AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT	60
	TTTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT AAAAAAAAGA GACCTTGCGG	120
50	TCTCAATGCG GCTCATCGCA TCCATTTTTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT	180
	AAGTTGGCTA CCATCGACGC TAAGAACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT	240
	CCTCTTCTTC GGCTCTCGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC	300

	ATTTTGACGT TTTAGACATA AAAAAAAGAG ACCTTGCGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3583:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3583:	
15	AAGCAGGCGC TCTCCCAGCT GAGCTAAGCC CCCAAATAGG TATTAAATTA ATGGTGGGCC	60
	TAAGTGGACT CGAACCACCG ACCTCACGCT TATCAGGCGT GCGCTCTAAC CAGCTGAGCT	120
	ATAGGCCCAT TAATTTGAAT GAACAAACAT TCAAAACTGA ATACAATATG TCACGTTATT	180
20	CCGCATCTTC TGAAGAAGAT GTTCCGAATA TATCCTTAGA AAGGAGGTGA TCCAGCCGCA	240
	CCTTCCGATA CGGCTACCTT GTTACGACTT CACCCCAATC ATTTGTCCCA CCTTCGACGG	300
	CTAGCTCCTA AAAAGGTTAC TCCACCGGCT TCGGGTGTTA CAAACTCTCG TGGTGTGACG	360
25	GGCGGTGTGT ACAAGACCCG GGAACGTATT TCACCGTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3584:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3584:	
	ACTIATITGG CGATATITTA AGTGATGAAG CITCAGTGAT TCCTGGTTCA CTTGGTTTAT	60
40	CACCTTCTGC TAGTTTTAGT AACGATGGTC CAAGATTGTA TGAGCCTATT CATGGATCAG	120
	CACCAGATAT TGCAGGTAAA AACGTTGCCA ATCCATTTGG AATGATTCTA TCTTTAGCGA	180
45	TGTGTTTACG TGAAAGCTTA AATCAACCAG ATGCTGCAGA TGAATTAGAA CAACATATTT	240
43	ATAGCATGAT TGAACATGGG CAAACGACAG CAGATTTAGG CGGCAAATTG AATACTACTG	300
	ATATTTTCGA AATTCTATCT CAAAAATTGA ATCACTAAGG GGGGAGATGT AAATGGGGTC	360
50	AAACATTATT TGACAAnGTG TGGGACAGAC ATGTGTTATA	400
	(2) INFORMATION FOR SEQ ID NO: 3585:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3585:	
	ACTGATGACA ATTITATCTG CAAATGCTTT TGCCACCCCA GATGCAATGG TACCAACACC	60
	TGTTTTCGAA ACTAATTTTA CCGCGATATC TGCATCTTTA TTCGCATTTT TCAAATCATG	120
10	TATCAGTTGC GCTAAATCTT CTATTGAATA AATATCATGA TGTGGCGGTG GTGAAATCAG	180
		240
4.6	ACCGATACCT GGCGTTGACC CTCTTGTCTT CGCAATCCAC GGATATACCT TAGTACCAGG	300
15	TAATTGACCA CCTTCACCAG GCTTTGCACC TTGCGCAACT TTAATTTGAA TTTCTTTGGG	
	CATGTTGTAA ATAATCACTA GTTACACCAA AACGCCCAGA AGCAACTTGT TTAATCGCAC	360
20	TTACTTTGGT GGCTTCCATC AACTTGTACT TCATAACGGT	400
20	(2) INFORMATION FOR SEQ ID NO: 3586:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3586:	
	TACAAGTATT ACCATTATCT ChAGAGGATT CTAGATAAGG GGCATGGATC ATTTGTCTTC	60
	TTATGAATTT GAGCCAGATA AAGAATCTAT CTTAAGTGTA ATCTTGACCT CAATATGTTG	120
35	AGAGTTTGAT TTACGGAACA ATATTAGACG CAAAAGCAAG TGAGCATGCA ACACGTATGA	180
	CTGCGATGAA AAATGCCACT GATAATGCAA CTGAACTTAT TGATGACTTA TCATTAGAAT	240
	ATAACAGAGC GAGACAAGCA GAAATTACGC AACAAATTAC TGAAATTGTT GGTGGTTCCG	300
40	CAGCGCTTGA ATAATATTTA ANGGAGGAAA ATAGCATGGG AATTGGCCGT GTACTCAAGT	360
	TATGGGTCCT GTAATTGATG TTCGATTTGA ACATAACGAG	400
45	(2) INFORMATION FOR SEQ ID NO: 3587:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

2598

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3587:

	AGGATTCGAA CCTGCGACCC CTTGGTCCCA AACCAAGTGC TCTACCAAGC TGAGCTACTT	120
5	CCCGTATAAT TAACGCGCCC GATAGGAGTC GAACCCATAA CCTCTTGATC CGTAGTCAAA	180
	CGCTCTATCC AATTGAGCTA CGGGCGCATA TGTTTTTATT GAAAATGGTG CCGAGGACCG	240
	GAATCGAACC GGTACGTGAT CACTCACCGC AGGATTTTAA GTCCTGTGCG TCTGCCAGTT	300
10	CCGCCACCCC GGCACTATAA AAATGGAGCA GAAGACGGGA TTCGAACCCG CGACCCCAAC	360
	CTTGGCAAGG TTGTATTCTA CCGCTGAACT ACTTCTGCAT	400
	(2) INFORMATION FOR SEQ ID NO: 3588:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3588:	
25	TACTATTGAC ATGTGTGAAC CCTATGTCCG ATTATTTCGC GACCTATTTC CTAATGCAGC	60
	TATTATTTT GACAGATTCC ATATCGTTCA ACATTTAAAT AGAGAACTTA ATAAGTATCG	120
	TGTACAAGTT ATGAATGAAT ACCGTAATAA AAAAGGACCT GATTATACAA TTTTTAAGAA	180
30 30	TAACTGGAAA GTCCTATTGA TGGATACTAG TAAAACCATA TTTAGTAAAT ACAGATGGAA	240
	TARATCTTTT AAGGGCTTAT AAACGCTCAT CTGACATTGT AGAATTCATG CTTTCAAAAG	300
	ACGATATACT ACGACACTCC TACGAACTTG TCCAGGGATT ACGAAAAGAC CTAAGGGTAT	360
35	GTAATIGGC CTAAATITAT TAATCGTTTA AATTCCGTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3589:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3589:	
	AGAGCGAACG GACGAGAAGC TTGCTTCTCT GATGTTAGCn GCGGACGGGT GAGTAACACG	60
<i>50</i>	TGGATAACCT ACCTATAAGA CTGGGATAAC TTCGGGAAAC CGGAGCTAAT ACCGGATAAT	120
	ATTTTGAACC GCATGGTTCA AAAGTGAAAG ACGGTCTTGC TGTCACTTAT AGATGGATCC	180
	GCGCTGCATT AGCTAGTTGG TAAGGTAACG GCTTACCAAG GCAACGATGC ATAGCCGACC	240

	AGTAGGGAAT CTTCCGCAAT GGGCGAAAGC TGACGGAGCA ACGNCGCGTG AGTGATGAAG	360
	GTCTTCGGAT CGTAAAACTC TGTTATTAGG GAAGAACATA	400
5	(2) INFORMATION FOR SBQ ID NO: 3590:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 509 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3590:	
	GTTAGGAGAG CGTTCTAAGG GCGTTGAAGC ATGATCGTAA GGACATGTGG AGCGCTTAGA	60
	AGTGAGAATG CCGGTGTGAG TAGCGAAAGA CGGGTGAGAA TCCCLCCACC GATTGACTAA	120
20	GGTTTCCAGA GGAAGGCTCG TCCGCTCTGG GTTAGTCGGG TCCTAAGCTG AGGCCGACAG	180
	GTAGGCGAT GGATAACAGG TTGATATTCC TGTACCACCT ATAATCGTTT TAATCGATGG	240
	GGGGACGCAT AGGATAGGCG AACGTGCGAT TGGATTGCAC GTCTAAGCAG TAAGGCTGAG	300
25	TATTAGGCAA ATCCGGTACT CGTTAAGGCT GAGCTGTGAT GGGGAGAAGA CATTGWGTCT	360
	TCGAGTCGTT GATTTCACAC TGCCGAGAAA AGCCTCTAGA TAGAAAATAG GTGCCCGTAC	420
30	CGCAAACCGA CACAGGTAAT CCAAGATGAG AATTCTAAGG TGAGCGAGCG AACTCTCGTT	480
30	AAGGAACTCG GCAAAATGAC CCCGTAACT	509
	(2) INFORMATION FOR SEQ ID NO: 3591:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3591:	
	ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA	60
4 5	TCTATATTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGAG ACTAGCGGGA	120
	TCGAACCGCT GACCTCCTGC GTGCAAAGCA GGCGCTCTCC CAGCTGAGCT AAGCCCCCAA	180
50	ATAGGTATTA AATTAATGGT GGGCCTAAGT GGACTCGAAC CACCGACCTC ACGCTTATCA	240
50	GGCGTGCGCT CTAACCAGCT GAGCTATAGG CCCATTAATT TGAATGAACA AACATTCAAA	300
	ACTGAATACA ATATGTCACG TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC	360

(2) INFORMATION FOR SEQ ID NO: 3592:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 440 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3592:	
	TGGGNAACGC AACATCCTTT TCCAACTTAA CATATATTTT GGGACCTTAG CTGGTGGTCT	60
15	GGGCTGTTTC CCTTTCGAAC ACGGACCTTA TCACCCATGT TCTGACTCCC &AGTTAAATT	120
.0	AATTGGCATT CGGAGTTTGT CTGAATTCGG TAACCCGAGA GGGGCCCCTC GTCCAAACAG	180
	TGCTCTACCT CCAATAATCA TCACTTGAGG CTAGCCCTAA AGCTATTTCG GAGAGAACCA	240
20	GCTATCTCCA GGTTCGATTG GAATTTCTCC GCTACCCTCA GTTCATCCGC TCACTTTCA	300
	ACGTAAGTCG GTTCGGTCCL CCATTCAGTG TTACCTGAAC TTCAACCTGA CCAAGGGTAG	360
	ATCACCTGGT TTCcGsGTsT ACGACCAAAT ASTAAACGCC CTATTCAGAC TCGCTTTCGC	420
25	TANGGCTCCA CATTACTGGN	440
	(2) INFORMATION FOR SEQ ID NO: 3593:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3593:	
	TAAACGAACC AATTITATIT GGTGCACCAC TAGTATIGAA TCCTGTGTTC TTTATTCCAT	60
	TTGTATTAGC ACCAATTGTT AACGTATGGA TTTTCAAACT TTTCGTTGAA GTGTTAGGAA	60 120
40	TGAATAGTTT TAGTGTGAAT TTACCTTGGA CAACACCAGG TCCATTGGGC ATTATCATGG	180
	GTACAGGTTT TGGTTTATGG TCATTCGTAC TAGCTATTAC TTTGATTGTT GTAGATATTA	240
	TTATHTACTA CCCATTCCTA AAAGTTTATG ATAGTGAAAT TCTTGATGAA GAAGAAGGAC	300
45	GTAAAGAAAG TAATTCAGAT TTAAAAGAAA AAGTTGCAGC AAACCTTTGA TACGAAAAAA	360
	GCTGATTCAA TTTTAGCGGC AAGTGGTGTA TCAGACGATG	400
50	(2) INFORMATION FOR SEQ ID NO: 3594:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: lin ar	
5		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3594:	
	AAGGGAATCG AATTTTCTTT CTCTTCCTCC GGGTACTAAG ATGTTTCAGT TCTCCGGGTG	6
10	TGCCTTCTGa TATGCTATGT ATTCACATAT CGATAACATG ACATAACTCA TGCTGGGTTT	12
•	CCCCATTCGG AAATCTCTGG ATCAAAGCTT ACTACAGCTC CCCAAAGCAT ATCGTCGTTA	18
	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AATAACTTAA	24
15	TCTATGTTTC CACCATTTTT ATAAGTCAAA CGCTCACATA CGGCTTCGTT TTCATTATTT	30
	TAAATGCTCA TTTACATAAG TAAACTCTGC TTTAAAATAA TTTAACTCAT TGTCTGCTAA	36
	ACGITITCIT TTATAAAAAG ATTTAAACGC GTTALTAATC CTCTCGCTC	40
20	(2) INFORMATION FOR SEQ ID NO: 3595:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3595:	
	AATATAAGCC CTGGATCATA CATGACCTGT ATTTGGGCAA TCCCTTCTGC TACATCTTCT	6
	GCCCACTCAT TCAATATTTG TTTTGCAATA TCATCACCTT CTTCAGCTGC TTCAAACAAT	12
35	ACTGGCACAT GTGTGCTTCT CGTAAATCCT CCGGCAATCA TGCGCTTTTT CAATGCACTC	18
	GTTGCAGCAC GTTGCTCAAA CGTTGTATTT TCAGTTGGAC GATACAATAA ATACCCAACT	24
	TCATTTGCCT TATGAAGCTC ACCATTATCA ATATGACCTT GGATTATTCT TGTACGCACC	30
40	CCCAATGGCC TGGTACCAAG CGTCCATACA AAAGATCCGT TCTGGCTTGG ATATTGGATG	36
	GTAATTTCCA ATTCGGCCTA GTTAATGGCA GCGGTTTTAA	40
	(2) INFORMATION FOR SEQ ID NO: 3596:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 596 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3596:

	CTGCCGAACC CGAAGAGCGG ATTTACAGTC CGCCGCGTTT AGCCACTTCG CTACCCTCCA	120
	GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG ACGGGTTCGA CCGCCGACCC	180
5	TCTGCTTGTA AGGCAGATGC TCTCCCAGCT GAGCTAATTC TCCAAAATAA TGACTCCTAC	240
	GGGACTCGAA CCCGTGTTAC CGCCGTGAAA GGGCGLGTCT TAACCGCTTG ACCAAGGAGC	300
	CATGGCTCCA CAGGTAGGAC TCGAACCTAC GACCGATCGG TTAACAGCCG ATAGCTCTAC	360
10	CACTGAGCTA CTGTGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	420
	TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	480
15	CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTA	540
	AGTAAAAGTG ATTTTGCTTC GCAAAACATT TATTTTGATT AAGTCTTCGA TCGATT	596
	(2) INFORMATION FOR SEQ ID NO: 3597:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3597:	
••	TCATCTTGAG GGGGGCTTCA TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC	60
30	TACCCAGCTA TGCCGTTGGC ACGACAACTG GTACACCAGA GGTATGTCCA TCCCGGTCCT	120
	CTCGTACTAA GGACAGCTCC TCTCAAATTT CCTACGCCCA CGACGGATAG GGACCGAACT	180
35	GTCTCACGAC GTTCTGAACC CAGCTCGCGT ACCGCTTTAA TGGGCGAACA GCCCAACCCT	240
	TGGGACCGAC TACAGCCCCA GGATGCGATG AGCCGACATC GAGGTGCCAA ACCTCCCCGT	300
	CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG GGTAGCTTTT ATCCGTTGAG	360
40	CGATGGCCCT TCCATGCGGA ACCACCGGAT CAATAAAGTC	400
	(2) INFORMATION FOR SEQ ID NO: 3598:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3598:	
	AACCAACGGC AGCAACTACA TGACCTAATT CTTGTGCTGA CTCTACATTT AGTAGCTCTA	60

CACTTCAATT GTACCAATCA ATCGTTGACG ATCTTGATCG TAACGCCATG TAGCAAC ACGATACTGT CCGTCACGAC TCGCGTATGC ATGCGCACTT GCTTCTGCAC CACGCG ATTTCCTGTT GCTAAAACAA CAGCATGTAT GCCATTCATA ACACCTTTAT TATGTG TGCACGATGA ATATCTACTT GGGCCAATAC AGAAGCACGT TCCATCGTTT GCAACCC CTCCAGTTCT CTCGCCCCTT GGCTAAATCT TTAACAT (2) INFORMATION FOR SEQ ID NO: 3599: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599: AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAACCCCCGTCGAT GTGAACTCTT GGGGGGAGATA AGCCTGTTAT CCCCGGGGTA GCTTTTT	TACC 180
ATTTCCTGTT GCTAAAACAA CAGCATGTAT GCCATTCATA ACACCTTTAT TATGTG TGCACGATGA ATATCTACTT GGGCCAATAC AGAAGCACGT TCCATCGTTT GCAACC CTCCAGTTCT CTCGCCCCTT GGCTAAATCT TTAACAT (2) INFORMATION FOR SEQ ID NO: 3599: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599: AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAC	
TGCACGATGA ATATCTACTT GGGCCAATAC AGAAGCACGT TCCATGGTTT GCAACC CTCCAGTTCT CTCGCCCCTT GGCTAAATCT TTAACAT (2) INFORMATION FOR SEQ ID NO: 3599: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPB: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599: AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAC	TATC 240
CTCCAGTTCT CTCGCCCCTT GGCTAAATCT TTAACAT (2) INFORMATION FOR SEQ ID NO: 3599: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPB: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599: AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAA	TTGC 300
(2) INFORMATION FOR SEQ ID NO: 3599: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599: AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAN	TCTT 360
(2) INFORMATION FOR SEQ ID NO: 3599: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599: AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAN	397
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599: AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAA	
AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAA	
CCCCGTCGAT GTGAACTCTT GGGGGAGATA AGCCTGTTAT CCCCGGGGTA GCTTTT	ACCT 60
	ATCC 120
GTTGAGCGAT GGCCCTTCCA TGCGGAACCA CCGGATCACT AAGTCCGTCT TTCGAC	CCTG 180
CTCGACTTGT AGGTCTCGCA GTCAAGCTCC CTTATGCCTT TACACTCTAT GAATGA	TTTC 240
CAACCATTCT GAGGGAACCT TTGAGCGCCT CCGTTACCTT TTAGGAGGCG ACCGCCC	CCAG 300
TCAAACTGCC CGCCTGACAC TGTCTCCCAC CACGATAAGT GTGCGGGTTA GAAAGCC	CAAC 360
ACAGCTAGGG TAGTATCCCA CCAGCGCCTC CAACGTAAGC	400
(2) INFORMATION FOR SEQ ID NO: 3600:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3600:	
S ATCTGAATCT GAGTCGTTGT CTGAGTCCGA ATCGCTATCT GAATCTGAGT CGCTATC	CTGA 60
GTCTGAGTCG CTATCTGAAT CTGAGTCGCT GTCTGAATCT GAATCACTGT CTGAGTC	CTGA 120
GTCGCTGTCT GAGTCTGAAT CGCTGTCAGA ATCTGAGTCG CTATCTGAGT CTGAATC	CTGA 180
ATCACTGTCT GAGTCCGAAT CGCTATCTGA ATCTGAATCG CTATCTGAGT CTGAGTC	
ATCCGAATCT GAGTCGCTAT CTGAGTCTGA GTCGCTATCC GAGTCTGAAT CGCTGTC	CGCT 240

	GGTCTGGAAT CTGAnTCGCT AACTGAAATC TGAGTCGCTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3601:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3601:	
15	ATTTAATACC TATTTGGGGG CTTAGCTCAG CTGGGAGAGC GCCTGCTTTG CACGCAGGAG	60
	GTCAGCGGTT CGATCCCGCT AGTCTCCACC ATTATTTGTA CATTGAAAAC TAGATAAGTA	120
	AGTAAAATAT AGATTTTACC AAGCAAAACC GAGTGAATAA AGAGTTTTAA ATAAGCTTGA	180
20	ATTCATAAGA AATAATCGCT AGTGTTCGAA AGAACATCCA CAAGATTAAT AACGCGTTTA	240
	AATCTTTTTA TAAAAGAACG TAACTTCATG TTAACGTTTG ACTTATAAAA ATGGTGGAAA	300
25	CATAGGITAA GITATTAAGG GCGCACGGIG GGAIGCCIIG GCACIAGAAG CCGAIGAAGG	360
23	GNCGTTACTA ACGACGATAT GCTTTGGGGA GCTGTAAGTA	400
30	(2) INFORMATION FOR SEQ ID NO: 3602: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3602:	
	GCTGTCTGAG TCGGAATCAC TGTnGGAGTC AGAATCGCTG TCTGAGTCGG AATCACTGTC	60
40	GGAATCTGAA TCGCTATCTG AATCTGAATC GCTATCTGAA TCCGAGTCAC TGTCTGAGTC	120
	AGAATCGnTA TCTGAATCTG AGTCACTGTC GGAATCTGAG TCACTGTCTG AGTCAGAATC	180
45	GCTATCTGAA TCCGAGTCAT TGTCTGAGTC GGAATCGCTC GCTGAGTCGG AATCGCTTGC	240
	TGAATCTGAA TCACTCGCTG AGTCTGAATC ACTTGCTGAA TCTGAATCAC TCGCTGAATC	300
	TGAACCACTA TCTGATGTAG GAATCACTAC CCGAATCTGA AnCGCTATCT GAATAAGAAT	360
50	CGCTGCCAGA TCTGAACCTG GGGTCAGAAT CTGAAT	396
	(2) INFORMATION FOR SEQ ID NO: 3603:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 529 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3603:	
	· · · · · · · · · · · · · · · · · · ·	
	TITCITATET GTAATTITAT CGTAAGATTT TITCGCAATG AGATTIGGAT CGTATTIGTC	60
10	CACTACAATA TCTAATAGTT TTACTTTAAG TCCAGCATTC ACAAAAAGTG CTGCCAGTTG	120
	AGCGCCCATT GTGCCTGCGC CAAGAACGGT TACTTTATTA ATTGTCATAG TGATTCCTCC	180
	AATTTAGTTG AGGATAAGAT AACCATTAAG ATAATTGGAA TAACGTTGCT ATTTTATAAA	240
15	ATTAATTAAG TATCTTTGAC AGTCATCTTA GCCTCTTATT TAAGGAAAAA GCTTTATGCT	300
	TAAAATAAGT CTTTTTTAGT GAAATTAATG CATCTCATAT AATTATTTGC TATTTATACG	360
	AAAGCMGAAT CTCCAGTCAA AGCGCGTCCA ATTACTAAGG CATTAATTTC ATGTGTACCT	420
20	TCGTACGTGT AAATCGCTTC TGCATCAGAG AAGAAACGTG CAATATCATA ATCGTCAGCT	480
•	AGTATGCCAT TACCACCTGT AATACCGCGG CCCATAGCTA CTnTCTCAC	529
25	(2) INFORMATION FOR SEQ ID NO: 3604:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3604:	
35	CACAAGATAA GCATTGTAGA TGTGGATGCT TTAACTGGGC AAGCGATTGG TCGTCCTAAA	60
	ACAGGTACAT ATGCGCTATC TGACCTAGTC GGTTTAGATA TTGCAGTGTC TGTAATTAAA	120
	GGCATGCAAC AAGTACCTGA AGAAACACCT TATTTTCATG ATGTCAAAAT TGTAAATACG	180
40	TTGTTTGACA ATGGCGCACT CGGACGTAAA ACGAAACAAG GATTTTACAA AAAGGATAAA	240
	GAAACTAAAG CTCGACTTGT TTACGATGTT GAAAAACAAG ATTATGTACC TGTATCGCAA	300
	CCACAATTAC CAATTTAAA TGAATTTAAT AAAGACTTAG TGCATAACCT TGATACCATA	360
45	TTCCAATGCG CAAGACGAGC GGGGACTATT TTTATGGGG	399
	(2) INFORMATION FOR SEQ ID NO: 3605:	
60	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(AI) SEQUENCE DESCRIPTION: SEQ ID NO: 3603:	
	ATCACTTGAG GCTAGCCCTA AAGCTATTTC GGAGAGAACC AGCTATCTCC AGGTTCGATT	60
5	GGAATTTCTC CGCTACCCTC AGTTCATCCG CTCACTTTTC AACGTAATCG GTTCGGTCCT	120
	CCATTCAGTG TTACCTGAAC TTCAACCTGA CCAAGGGTAG ATCACCTGGT TTCGGGTCTA	180
10	CGACCAAATA CTAAACGCCC TATTCAGACT CGCTTTCGCT ACGGCTCCAC ATTTACTGCT	240
	TAACCTTGCA TCAAATCGTA ACTCGCCGGT TCATTCTACA AAAGGCACGC CATCACCCAT	300
	TAACGGGCTC TGGACTACTT GTAAGCACAC GGTTTCAGGT TCTATTTCAC TCCCCTTCCG	360
15	GGGTGGCTTT TCACCTTTCC CTCACGGTAA TGGGTTCACT	400
	(2) INFORMATION FOR SEQ ID NO: 3606:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3606:	
	AAATCCTGCG GTGAGTGATC ACTAACCCGG TTCGATTCCG GTCCTCGGCA CCATTTTCAA	60
30	TAAAAACATA TGCGCCCGTA GCTCAATTGG ATAGAGCGTT TGACTACGGA TCAAGAGGTT	120
	ATGGGTTCGA CTCCTATCGG GCGCGTTAAT TATACGGGAA GTAGCTCAGC TTGGTAGAGC	180
	ACTTGGTTTG GGACCAAGGG GTCGCAGGTT CGAATCCTGT CTTCCCGATA TACTGTAATT	240
35	ATTATGGGGG CTTAGCTCAG CTGGGGAGAG CGCCTGCTTT GCACGCAGGA GGTCAGCGGT	300
•	TCGATCCCGC TAGTCTCCAC CATATTATTT ACAAACTATA TAAGGCGGTG TAGCTCAGCT	360
	GGCTAGAGCG TACGGTTCAT ACCCGTGAGG TCGGGGGTTC	400
40	(2) INFORMATION FOR SEQ ID NO: 3607:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3607:	
	GGGTGTGCTT CTGATATGCT ATGTATTCAC ATATCGATAA CATGACATAA CTCATGCTGG	60
	GTTTCCCATT CGGAAATCTC TGGATCAAAG CTTACTTACA GCTCCCCAAA GCATATCGTC	120

	TTAATCTATG TTTCCACCAT TTTTATAAGT CAAACGTTAA CATGAAGTTA CGTTCTTTTA	240
	TAAAAAGATT TAAACGCGTT ATTAATCTTG TGAGTGTTCT TTCGAACACT AGCGATTATT	300
5	TCTTATGAAT TCAAGCTTAT TTAAAACTCT TTATTCACTC GGTTTTGCTT GGTAAAATCT	360
	ATATTTACT TACTTATCTA GTTTnCAATG TACAAATAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3608:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3608:	
20	TAGTTTTCAA TGTACAAATA ATGGTGGAGA CTAGCGGGAT CGAACCGCTG ACCTCCTGCG	60
	TGCAAANAGC CGCTCTCCCA GCTGAGCTAA GCCCCCAAAT AGGTATTAAA TTAATGGTGG	120
	GCCTAAGTGG ACTCGAACCA CCGACCTCAC GCTTATCAGG CGTGCGCTCT AACCAGCTGA	180
25	GCTATAGGCC CATTAATTTG AATGAACAAA CATTCAAAAC TGAATACAAT ATGTCACGTT	240
	ATTCCGCATC TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG TGATCCAGCC	300
	GCACCTTCCG ATACGGCTAC CTTGTTACGA CTTCACCCCA ATCATTTGTC CCACCTTCGA	360
	CGGCTAGCTC CTAAAAGGTT ACTCCACCGG CTTCGGGTGT	400
	(2) INFORMATION FOR SEQ ID NO: 3609:	
35 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3609:	
	AGGGCACTCT TACTGGGCGT GTTAAATTAC TAANTTCAAT CAGCAGAAGA ACTAGGACAT	60
15	GGCGCTTTTA AAATTATTGA AACACATGCA TTAAAAGATG TACAAGCAGT ATTGGGTTTT	120
	CATAATGACC CATCGCGTTC GGTAGGTACA TTTGCAATCA AAACAGGGGC AATTACATCA	180
50	GCAGTAGATC GTTTTGAGTT TCATATTAAA GGCGTGGGTG GTCATGCTGC AAACCAGAAC	240
	AATGCAACGA TCCAGTTATT GTGTTGGCGC AATTGATTAA TAGTATTCAA TCCATAGTTA	300
	GTAGAAATCT ATCTGCGTTT GATGAAGCGG TAGTAACAAT TGGACAAATA TCATGTGGTA	360

(2) INFORMATION FOR SEQ ID NO: 3610:

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3610:	
	AGGGAATCGA ATTTTCTTTC TCTTCCTCCG GGTACTAAGA TGTTTCAGTT CTCCGGGTGT	60
15	GCCTTCTGAT ATGCTATGTA TTCACATATC GATAACATGA CATAACTCAT GCTGGGTTTC	120
15	CCCATTCGGA AATCTCTGGA TCAAAGCTTA CTTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
	GTARCGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AATAACTTAA	240
20	TCTATGTTTC CACCATTTTT ATAAGTCAAA CGCTCACATA CGGCTTCGTT TTCATTATTT	300
	TARATGCTCA TITACATARG TARACTCTGC TITARARTGA ATTTRACTCA TIGTCTGCTA	360
	AACGTTTTGC TTTTATAAAA AGATTTAAAC GCGTTGATTT	400
25	(2) INFORMATION FOR SEQ ID NO: 3611:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3611:	
	GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC	60
	CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT	, 120
40	GGCAACGTTC TACTCTAGCG GAANTAAGTT GNACTACCAT CGACGCTAAG GAGCTTAACT	180
	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240
	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCTTCGC AAAACATTTA	300
45	TTTTGATTAA GTCTTCGATC GATTAGTATT CGTCAGCTCC ACATGTCACC ATGCTTCCAC	360
	CTCGAACCTA TTAACCTCAT CATCTTTGAG GGATCTTAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3612:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3612:	
5	ACCCAGCTCG CGTACCGCTT TAATGGGCGA ACAGCAATCC CTTGGGACCG ACTACAGCCC	60
	CAGGATGCGA TGAGCCGACA TCGAGGTGCC AAACCTCCCC GTCGATGTGA ACTCTTGGGG	120
	GAGATAAGCC TGTTATCCCC GGGGTAGCTT TTATCCGTTG AGCGATGGCC CTTCCATGCG	180
10	GAACCACCGG ATCACTAAGT CCGTCTTTCG ACCCTGCTCG ACTTGTAGGT CTCGCAGTCA	240
	AGCTCCCTTA TGCCTTTACA CTCTATGAAT GATTTCCAAC CATTCTGAGG GAACCTTTGA	300
15	GRIGOCTCCGT TACCTTTTAG GAGGCGACCG CCCCAGTCAA ACTGCCCGCC TGACACTGTC	360
	TCCCACCACG ATAAGTGTnC GGGGGTTAGA AAGCCAACAC	400
	(2) INFORMATION FOR SEQ ID NO: 3613:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3613:	
	ACTTACAGCT CCCCAAAGCA TATCGTCGTT AGTAACGTCC TTCATCGGCT TCTAGTGCaA	60
30	GGCATCCACC GTGCGCCCTT AATAACTTAA TCTATGTTTC CACCATTTTT ATAAGTCAAA	120
	CGCTCACATA CGGCTTCGTT TTCATTATTT TAAATGCTCA TTTACATAAG TAAACTCTGC	180
35	TTTAAAATAA TTTAACTCAT TGTCTGCTAA ACGTTTTCTT TTATAAAAAG ATTTAAACGC	240
	GTTATTAATC TTGTGAGTGT TCTTTCGAAC ACTAGCGATT ATTTCTTATG AATTCAAGCT	300
	TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA TCTATATTTT ACTTACTTAT	360
40	CTAGTTTCA ATGTACAAAT AATGGTGGGC CTAAGTGGAC TCGAACCACC GACCTCACGC	420
	TTATCAGGCG TGCGCTCTAA CCAGCTGAGC TATAGGCCCA TTTTTTTGAA TGTTAAATAA	480
	ACATTCA	487
45	(2) INFORMATION FOR SEQ ID NO: 3614:	
60	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	ACCGTACGCT CTAGCCAGCT GAGCTACACC GCCTTATATA GTTTGTAAAT AATATGGTGG	60
	AGACTAGCGG GATCGAACCG CTGACCTCCT GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG	120
5	CTAAGCCCCC ATAATAATTA CAGTATATCG GGAAGACAGG ATTCGAACCT GCGACCCCTT	180
	GGTCCCAAAC CAAGTGnTCT ACCAAGCTGA GCTACTTCCC GTATAATTAA CGCGCCCGAT	240
10	AGGAGTCGAA CCCATAACCT CTTGATCCGT AGTCAAACGC TCTAThCAAT TGAGCTACGG	300
	GCGCATATGT TTTTATTGAA AATGGTGCCG AGGACCGGAA TCGAACCGGT ACGGTGATCA	360
	CTCACCGCAG ATTTTAAGTC CTGTGCGTCT GCnAGTTCCG	400
15	(2) INFORMATION FOR SEQ ID NO: 3615:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3615:	
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	60
	AGATTCAAAC GITTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC	120
30	GTTTTAGACA TAAAAAAAGA GACCTCACGG TCTCAACTTG CCTGGCAACG TTCTACTCTA	180
	GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT	240
35	TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC	300
.	TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT TTCTTTGTGT	360
	TTACTTTTA TTTTGACGTT TAGGCATAAA AAAAAGAGAC	400
40	(2) INFORMATION FOR SEQ ID NO: 3616: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3616:	
50	THGTGTCTTT CGAACACTAG CGATTATTTC TTATGAATTC AAGCTTATTT AAAACTCTTT	60
	ATTCACTCGG TTTTGCTTGG KAAAATCTAT ATTTTACTTA CTTATCTAGT TTTCAATGTA	120
55	CAATTTCTTT TTAGTCAAGC GCTCGCATAA GCAATATCAC TTTAACCAAA AAATATTTGA	180

	AAGATGTTCC GAATATATCC TTAGAAAGGA GGNGATCCAG CCGCACCTTC CGATACGGCT	300
_	ACCTTGTTAC GACTTCACCC CAATCATTTG TCCCACCTTC GACGGCTAGC TCCTAAAAGG	360
6	TTACTCCACC GGCTTCGGGT GTTACAAACT CTCGTmGGTG TGACGGGCGG TGTGTACAAG	420
	(2) INFORMATION FOR SEQ ID NO: 3617:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3617:	
	CACTAGCGAT TATTTCTTAT GAATTCAAGC TTATTTAAAA CTCTTTATTC ACTCGGTTTT	60
20	GCTTGGTAAA ATCTATATTT TACTTACTTA TCTAGTTTTC AATGTACAAT TTCTTTTTAG	120
	TCAAGCGCTC GCATAAGCAA TATCACTTTA ACCAAAAAAT ATTTGAATGT TAAATAAACA	180
25	TTCAAAACTG AATACAATAT GTCACATTAT TCCGCATCTT CTGAAGAAGA TGTTCCGAAT	240
	ATATCCTTAG AAAGGAGGTG ATCCAGCCGC ACCTTCCGAT ACGGCTACCT TGTTACGACT	300
	TCANCCCAAT CATTTGTCCC ACCTTCGACG GCTAGCTCCT AAAAGGTTAC TCCACCGGCT	360
30	TCGGGTGTTA CAAACTCTCG TGGTGTGACG GGCGGTGTGT	400
	(2) INFORMATION FOR SEQ ID NO: 3618:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3618:	
	GATATACGCT ATGGCTGGAG CAGTGTGGCC AAATGGCGGA AGACAAACGT TTAATGCGAT	60
45	ATACTTAGCG CAAAATATTG GTGTGGCTGT CGGTGCTGCA ATGGGCGGCT TTGTCGCAGA	120
	ATTTAGCTTT AACTATATCT TTTTAGCCAA TCTTATTATG TATGTTGTGT TTGCGCTTGT	180
50	CCGGTTAACn AATTTAATAT TGAAATTAAT GCGAAAGTTA AATATCCAAC TCATTTAGAT	240
	ATTACTGGTA AAAAGAATAA AGCAAGATTT ATTTCATTAG TACTAATTTG TGCAATGTTT	300
	GCAATTTGTT GGGTTGCATA TATTCAATGG GGAGTCTACA ATCGCTTCAT TTTACACAAT	360
	CTATTAATAT TTCAATGGGC ACAATATAGT GTTTTATGGG	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: d uble (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3619:	
	TCGCACGCCT TCGCCTATCC TACTGCGTCC CCCCATCGAT TAAAACGATT ATAGGTGGTA	60
	CAGGNAATAT CAACCTGTTA TCCATCGCCT ACGCCTGTCG GCCTCAGCTT AGGACCCGAC	120
15	TAACCCAGAG CGGACGAGCC TTCCTCTGGA AACCTTAGTC AATCGGTGGA CGGGATTCTC	180
	ACCCGTCTTT CGCTACTCAC ACCGGCATTC TCACTTCTAA GCGCTCCACA TGTCCTTACG	240
	ATCATGCTTC AACGCCCTTA GAACGCTCTC CTACCATTGT CCAAAGGAAA TCCACAGCTT	300
20	CGGTAATATG TTTAGCCCCG GTACATTTTC GGCGCAGTGT CACTCGACTA GTGAGCTATT	360
	ACGCACTCTT TAAATGATGG CTGCTTCTAA GCCAACATCC	400
25	(2) INFORMATION FOR SEQ ID NO: 3620:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3620:	
35	TTAAGTCTTC GATCGATTAG TATTCGTCAG CTCCACATGT CACCATGCTT CCACCTCGAA	60
	CCTATTAACC TCATCATCTT TGAGGGATCT TATAACCGAA GTTGGGAAAT CTCATCTTGA	120
40	GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA CTTATCCCGT CCACACATAG CTACCCAGCT	180
	ATGCCGTTGG CACGACAACT GGTACACCAG AGGTATGTCC ATCCCGGTCC TCTCGTACTA	240
	AGGACAGCTC CTCTCAAATT TCCTACGCCC ACGACGGATA GGGACCGAAC TGTCTCACGA	300
45	CGTTCTGAAC CCAGCTCGCG TACCGCTTTA ATGGGCGAAC AGCCCAACCC TTGGGACCGA	360
	CTACAGNCCC AAGGATGCGA TGAGCCGACA TCGAGGTGCC	400
	(2) INFORMATION FOR SEQ ID NO: 3621:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 475 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55	(D) TOPOLOGI: IIIIEGI	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3621:	
	CCACACCCGc AAATGGTGag CCATAGCAGG ATTCGgaACC TCTGCACCCT CTGATTAAAA	60
5	GTCAGCATGC TCTACCAACT GAGCTAATGG CTCTTCCATG GTGCCGGCCA GAGGACTTGA	. 120
	ACCCCCAACC TACTGATTAC AAGTCAGTTG CTCTACCAAT TGAGCTAGGC CGGCAATATG	180
10	TAAGAATAAA TGGTGGAGAA TGACGGGTTC GAACCGCCGA CCCTCTGCTT GTAAGGCAGA	240
	TGCTCTCCCA GCTGAGCTAA TTCTCCGATT TAAAACTGCC TGGCAACGTT CTACTCTAGC	300
	GGAACGTAAG TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA	360
15	ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGGA ATGTAATTTA TACATTCAAA	420
	ACTAGATAGT AAGTAAAAGT GATTTTGCTT CGCAAAACAT TTATTTTGAT TAAGT	475
	(2) INFORMATION FOR SEQ ID NO: 3622:	
20 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3622:	
30	TGGACGAAAC TTTATATCGA TCAATTTCTA TCGAGTTGGA CAATGCCGAA GCGTGACAAA	60
	AGTTTTTACC ATGCATGGTT GCATTTAGCG CAACATGACC ATAGTTTTAC TAAAGCACAG	120
	CGCnCAAGTG ATTAAAGGCT TACCCAATGA TCCTGAAATG ACGATAGAGT CAGTATTAAC	180
35	TCATTTTCA ATAGATCAGG AAGACTACCA AGCTTATGTT GAAGGACATC TTTTGGCGTT	240
	ACCGGGTTGG GCAGGTATGT TGTATTACCG TTCACAACAG CATCACTTTG AACAACATTT	300
40	GTTAACGGAT TATTTGGCAA TTCGGTTAGT TGTCGAACAA TTGCTAGTTG GTGGATGAGT	360
	TTTAAGTCAG TCGCTAAAGA TTGTGGAAAG TAAGATCCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3623:	
1 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3623:	
55	TAGATGCTTT CASACTTATC CCGTCCACAC ATAGCTACCC AGCTATGCCG TTGGACGACA	60

	ATTTCCTACG CCCACGACGG ATAGGGACCG AACTGTCTCA CGACGTTCTG AACCCAGCTC	180
	GCGTACCGCT TTAATGGGCG AACAGCCAAC CCTTGGGACC GACTACAGCC CCAGGATGCG	240
5	ATGACCGACA TCGAGGTGCC AAACCTCCCC GTCGATGTGA ACTCTTGGGG GAGATAAGCC	300
	TGTTATCCCC GGGGTAGCTT TTATCCGTTG AGCGATGGCC TTCCATGCGG GAACACCGGA	360
10	TCACTAAGTC CGTCTTTCGA CCCTGCTCGA CTTTGTAGGn	400
	(2) INFORMATION FOR SEQ ID NO: 3624:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3624:	
	GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC.	60
25	CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT	120
	GGCAACGTTC TACTCTAGCG GAANTAAGTN GNACTACCAT CGACGCTAAG GAGCTTAACT	180
	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240
30	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCTTCGC AAACATTTAT	300
	TTTGATTAAG TCTTCGATCG ATTAGTATTC GTCAGCTCCA CATGTCACCA TGCTTCCACC	360
	TCGAACCTAT TAACCTCATC ATCTTTGAGG GGATCTTATA	400
35	(2) INFORMATION FOR SEQ ID NO: 3625:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3625:	
	TTAAAGAACG CTAATAACTG ATCGTAACCA CTATATATAT TGTTGTGACC TCTAACAGCA	60
	TAATGTCTAA ATGTTTGTGG GATATATTGA AGCAATCCTT TTGCTGGATT GCCCTGTAAA	120
50	ACGTTGATGT CTCTAAGCGA ACTAGATTGA GTTATACCTG CATTTCCTCC TGATTCGTGT	180
	TGAATCAAGC TAATGATATT TCCTACGTCA GCCGAAGTAA CATTAACACC CATTCGTTTT	240
55	GCTGCACGAC GTATATCGCC TGCCCAAGCA GATGCAGCCT TATTAACACC TGAACCACTT	300

400

CCTGGATGCG ACCCTTGCAT CANTTGGGAA ATGTANGTGT

	(2) INFORMATION FOR SEQ ID NO: 3626:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3626:	
15	GATTGTGGTT CCGACATTCG AGGGTTCGAT CCCCTTCAGC CGCCCTTATT ATTAATGGGC	60
	TATAGCCAAG CGGTAAGGCA ACGGACTTTG ACTCCGTCAC TCGTTGGTTC GAATCCAGCT	120
	AGCCCAGTTA TTGGCGGCAT AGCAAGTGGT AAGGCAGAGG TCTGCAAAAC CTTTATCACC	180
20	GGTTCAAATC CGGTTGCCGC CTCCAGGTTT ATGCGGGAGT AGTTCAACTT TTAGAACACG	240
	TTCCTTCCCG GAAGAGGTAT AGGTGCAAAT CCTATCTTCC GCTCCATAAT TTAATAATAA	300
25	TGCGGGAGTA TTTCAACTCT TAGAATACAT TCCTTCCTGG AATGAGGTAT AGGTGTAAAT	360
	CCTATCTTCC GCTCCATAAT TTAATATTTG CGGGAGTAGT TCAACTTTTA GAAACAGCTC	420
	CTTCCCGGAA CCGAGGTATA GGTGTAAATC CTATCTTCCG C	. 461
30	(2) INFORMATION FOR SEQ ID NO: 3627:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3627:	
	TGCGGTCTCA ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTTCT ACTCTAGCGG	60
	AACGTAAGTT GGCTMAMATC GACGCTAAGA ACCTTTCTTG ACTTGTGACA ATCGCTTGCT	120
45	TCTTTCCTCT TCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG TTGCGCTCTT	180
	TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTTCT TTGTGTTTGC	240
	TTTTTATTT GACGTTTTAG ACATAAAAA AAGAGACCTT GCGGTCTCAA TGCGGCTCAT	300
50	CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTC GACTACCATC	360
	GACGCTAAGG GAGCTTAACT TCTGTGTnCG GGCATGGGGG	400
55	(2) INFORMATION FOR SEQ ID NO: 3628:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3628:	
10	ATGCTTTCAG CACTTATCCC GTCCACACAT AGCTACCCAC CTATGCCGTT GGCACGACAA	60
	CTGGGTACAC CAGAGGTATG TCCATCCCGG TCCTCTCGTA CTAAGGACAG CTCCTCTCAA	120
	ATTTCCTACG ACCCACGACG GATAGGGACC GAACTGTCTC ACGACGTTCT GAACCCAGCT	180
15	CGCGTACCGC TTTAATGGGC GAACAGCCCA ACCCTTGGGA CCGACTACAG CCCCAGGATG	240
	CGATGAGCCG ACATCGAGGT GCCAAACCTC CCCGTCGATG TGAACTCTTG GGGGAGATAA	300
20	GCCTGTTATC CCCGGGGTAG CTTTTATCCG nTGAGCGATG GGCCTTCCAT GCGGNACCAC	360
	CGGnTTACTA AGTCCGTCTT TCGAnCCTGC TCGACTTGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3629:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30 ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3629:	
35	TTTATAAATA TCCCAGTCTG AACGCGATTC CCATAACGGA TCAATGGCAG GATTGAAAGG	60
	ATGTACATAT GGATGCATAT CCGTTGATGA TAAATCATGT TTTTCATACC AAGTCGCTGC	120
	CGGCAAAACA ATGTCAGAAT ATAACGGTGT TGCCGTCATT CTGAAGTCTA AAGAGACCAC	180
40	TAAATCTAAC TTACCTGTTG TTTCTTCACG CCACGTAATT TCTTCTGGCT TTTCATCTTC	240
	ATTTGGTGTA GCTAATAACC CTGATTTTGT GCCAAGTAAA TGCTTCATAA AGTATTCTTG	300
	ACCTTTTGCA GAACTTGAAA TTAAGTTTGA ACGCCATATA AATAATGATT TTGGATGATT	360
45	CTnTTTCAAA TCAGGATCTT CTATTGCAAA TGGGGTTTGT	400
	(2) INFORMATION FOR SEQ ID NO: 3630:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 589 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TTTAAGTTGT nGATTTAAAA TATTAATAAA GTGTAAATTT GACTATTGAN ATTCKYACAA	60
	ATACATATTA AAATAATATT TGTTGAATTA ATTGAGTTAG GAAATTTATT TTTTAGAAAT	120
5	AAAATAATTA AAAATAATTC TTGACTTACA AAAACTTACG AGTTATAATT AAATCTTGTA	180
	AGTGACAAAC GAACATTGAA AACTGAATGA CAATATGTCA ACGTTAATTC CAAAAACGTA	240
10	ACTATAAGTT ACAAACATTA TTTAGTATTT ATGAGCTAAT CAAACATCAT AATTTTTATG	300
	GAGAGTTTGA TCCTGGCTCA GGATGAACGC TGGCGGCGTG CCTAATACAT GCAAGTCGAG	360
	CGAACGGACG AGAAGCTTGC TTCTCTGATG TTAGCGGCGG ACGGGTGAGT AACACGTGGA	420
15	TAACCTACCT ATAAGACTGG GATAACTTCG GGAAACCGGA GCTAATACCG GATEATATTT	480
	TGAACCGCAT GGTTCAAAAG TGAAAGACGG TCTTGCTGTC ACTTATAGAT GGATCCGCGC	540
	TGCATTAGCT AGTTGGTAAG GTAACGGCTT ACCAAGGCAA CGATGCATA	589
20	(2) INFORMATION FOR SEQ ID NO: 3631:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3631:	
	CCAACTGAGC TAATGGCTCT TCCATGGTGC CGGCCAGAGG ACTTGAACCC CCAACCTACT	60
	GATTACAAGT CAGTTGCTCT ACCAATTGAG CTAGGCCGGC AATATGTAAG AATAAATGGT	120
35	GGAGAATGAC GGGTTCGAAC CGCCGACCCT CTGCTTGTAA GGCAGATGCT CTCCCAGCTG	180
	AGCTAATTCT CCGATTTAAA ACTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTCG	240
40	ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC	300
	CTTGCTATAG TCACCAGACA TATGAATGTA ATTTATACAT TCAAAACTAG ATAGTAAGTA	360
	AAAGTGATTT GCTTCGCAAA ACATTTATTT TGATTAAGTC	400
45	(2) INFORMATION FOR SEQ ID NO: 3632:	4
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3632:

	TTCCACCATT TTTATAAGTC AAACGTTAAC ATGAAGTTAC GTTCTTTTAT AAAAAGATTT	120
5	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACACTA GCGATTATTT CTTATGAATT	180
•	CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATRTTACTT	240
	ACTTATCTAG TTTTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGA ACCGCTGACC	300
10	TCCTGGCGTG CAAAGCAGGC GCTCTCCCAG CTGAGCTAAN GCCCCCANAT AGGTATTAAA	360
	TTAATGGGGG GGCCTAAGTG GACTCGAACC ACCGACCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 3633:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Topologi: Tineat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3633:	
	ATATGTCAAC GTTAATTCCA AAAAACGTAA CTATAAGTTA CAAACATTAT TTAGTATTTA	60
25	TGAGCTAATC AAACATCATA ATTITTATGG AGAGTTTGAT CCTGGCTCAG GATGAACGCT	120
	GGCGGCGTGC CTAATACATG CAAGTCGAGC GAACGGACGA GAAGCTTGCT TCTCTGATGT	180
30	TAGCGGCGGA CGGGTGAGTA ACACGTGGAT AACCTACCTA TAAGACTGGG ATAACTTCGG	. 240
	GAAACCGGAG CTAATACCGG ATAATATTTT GAACCGCATG GTTCAAAAGT GAAAGACGGT.	300
	CTTGCTGTCA CTTATAGATG GATCCGCGCT GCATTAGCTA GTTGGTAAGG TAACGGCTTA	360
35	CCAAGGCNAC GATGCATAGC CGACCTGAGA NGGTGATCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3634:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3634:	
	TGAGCTAGGC CGGCAATATG TAAGAATAAA TGGTGGAGAA TGACGGGTTC GAACCGCCGA	60
50	CCCTCTGCTT GTAAGGCAGA TGCTCTCCCA GCTGAGCTAA TTCTCCGATT TAAAACTGCC	120
	TGGCAACGTT CTACTCTAGC GGAACGTAAG TTCGACTACC ATCGACGCTA AGGAGCTTAA	180
<i>55</i>	CTTCTGTGTT CGGCATGGGA ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGAA	240

	TATTTIGATT AAGTETTEGA TEGATTAGTA TTEGTEAGET CEACATGTEA CEATGTEC	360
	ACCTCGAACC TATTAACCTC ATCATCTTTG AGGGATCTTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3635:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3635:	
	TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT TTAGCTCTAC	60
	TARACTOGTT GOGCTCTTTT CTCGTTTCGT CAGATTCARA CGTTTTCACT TCGCCAAGCC	120
20	ATTTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAAA GAGACCTTGC	180
	GGTCTCAAAT GCGGCTCATC GCATCCATTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA	240
	CGTAAGTTGG GCTACCATCG ACGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT	300
25	CTTTCCTCTT CTTCGGCTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT	360
	TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC	400
30	(2) INFORMATION FOR SEQ ID NO: 3636:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3636:	
40	TACTTATCTA GTTTTCAATG TACAATTTCT TTnTAGTCAA GCGCTCGCAT ACTGATTTTC	60
	AAAAAATCAA ATGCTCATTT ACAAAAGTAA ACTCCGCTTT ATTTTTCTTA ATGCATTGTC	120
45	TAACAACCGC TTTCTTTAAA AAGAATAGAT TGTCAAGCGC TCGCATAAGC AATATCACTT	180
	TAACCAAAAA ATATTTGAAT GTTAAATAAA CATTCAAAAC TGAATACAAT ATGTCACGTT	240
	ATTCCGCATC TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG TGATCCAGCC	300
50	GCACCTTNCG ATACGGCTAC CTTGTTACGA CTTCACCCCA nTCATTTGTn CCACCTTCGA	360
	CGGCTAGCTC CTAAAAGGTT ACTCCACCGG CTTCGGGTGT	400
55	(2) INFORMATION FOR SEQ ID NO: 3637:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3637:	
10	AGCGCTCGCA TAAGCAATAT CACTTTAACC AAAAAATATT TGGAATGTTA AATAAACATT	60
	CAAAACTGnA ATACAATATG TCACATTATT CCGCATCTTC TGAAGAAGAT GTTCCGAATA	120
	TATCCTTAGA AAGGAGGTGA TCCAGCCGCA CCTTCCGATA CGGCTACCTT GTTACGACTT	180
15	CACCCCAATC ATTIGTCCCA CCTTCGACGG CTAGCTCCTA AAAGGTTACT CCACCGGCTT	240
	CGGGTGTTAC AAACTCTCGT GGTGTGACGG GCGGTGTGTA CAAGACCCGG GAACGTATTC	300
20	ACCGTAGCAT GCTGATCTAC GATTACTAGC GATTCCAGCT TCATGTAGTC GAGTTGCAGA	360
	CTACAATCCG AACTGAGAAC CACTTATGGG ATTGCCTnAC	400
	(2) INFORMATION FOR SEQ ID NO: 3638:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3638:	
	TTCTCCGATT TAAAACTGCC TGGCAACGTT CTACTCTAGC GGAAGTAAGT CGAnCTACCA	60
35	TCGACGCTAA GGAGCTTAAC TTCTGTGTTC GGCATGGGAA CAGGTGTGAC CTCCTTGCTA	120
	TAGTCACCAG ACATATGAAT GTAATTTATA CATTCAAAAC TAGATAGTAA GTAAAAGTGA	180
40	TTTTGCTTCG CAAAACATTT ATTTTGATTA AGTCTTCGAT CGATTAGTAT TCGTCAGCTC	240
	CACATGTCAC CATGCTTCCA CCTCGAACCT ATTAACCTCA TCATCTTTGA GGGATCTTAT	300
	AACCGAAGTT GGGGAAATCT CATCTTGAGG GGGGCTTCAT GCTTAGATGC TTTCAGCACT	360
45	TATCCCGTCC ACACATAGCT ACCCAGCTAT GCCGTTGGCA	400
	(2) INFORMATION FOR SEQ ID NO: 3639:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 551 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATGTCTCTAA CGCCTTTAAT AGTATTGAAC ACAATTGGGA AAAAAGCAGC GATAAAAATA	60
	ATCGCAATCG CTGGCAAACT ACCAATACCA AACCATAGAA CAACAAATGG TGCCCATGCT	120
5	ATCGGAGATA TCGGCCTAAT CAATTGAAAT AGCGGTTCGA TAGCGTTGTA TAGCCAACGA	180
	TTCCTTCCAA GCAAGAAGCC CAATGGAATA GCAACCAACA ATGCGACAAC AAAGCCCGCT	240
	ACAAATCTCC ATAAACTAAT TGCTAAATGT TGGAAAATTT CTCCAGTAAC AATGAAAGAC	300
10	CATATACTTT TTCCTACAAG AGCAGGACCC GGTAACAATA CAGGTTGGTA ATGCCCAATA	360
	ATANTGACCA TTTCCCAANT GCCTANGAAN STAATAANTG TGATAATAGG TAATATAANT	420
15	TTGTTATTTG TGGGACGTGT CATGAACGCG ATGCCTCCTT ATACAATGAC GGTTCAACAA	480
	AGTCATCCAT ATGCAGGTGG ATTAAACAAA TGATGTTGTT TTACCANGTC GTAATTTCCT	540
	GATAGCCGGA T	551
20	(2) INFORMATION FOR SEQ ID NO: 3640:	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3640:	
	CACTAAACTA AATTAATGAA GTGCCTTATG TATAAAAATT ATAACTTGAT CCAACTTACA	60
	CTACCAATAG AAACTTCTGT TAGAATTCCT CAAATTGATA TTTCGCGATA TGTTAATGAA	
35 .	ATTGTTGAAA CGATACCTGA TAGCGAATTC GATAAATTCA GACATCATCG TGGCGCAACA	180
	TCCTATCATC CAAAAATGAT GTTAAAAATC ACCTTATATG CATATACTCA ATCTGTATTT	240
	TCTGGTCGTA GAATAGAGAA ATTACTTCAT GACAGTATTC GAATGATGTG GTTAGCTCAA	300
40	AATCAAACAC CTTCTTATAA AACTATTAAT CGTATTAGAG TGAATCCTAA TACTGATGCG	360
	TTAATTGAAT CTTTATTTAT CCAGTTTCAT AGTCAATGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3641:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 398 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3641:

55

	GATTGTCCTT TGGCAATGGT AGGAGAGCGT TCTAAGGGCG TTGAAGCATG ATCGTAAGGA	120
	CATGTGGAGC GCTTAGAAGT GAGAATGCCG GTGTGAGTAG CGAAAGACGG GTGAGAATCC	180
5	CGTCCACCGA TTGACTAAGG TTTCCAGAGG AAGGCTCGTC CGCTCTGGGT TAGTCGGGTC	240
	CTAAGCTGAG GCCGACAGNG TAGGCGATGG ATAACAGGTT GATATTCCTG TACCACCTAT	300
40	AATCGTTTTA ATCGATGGGG GGYCGCATAG GATAGGCGAA CGTTGCGATT GGATTGCACG	360
10	TCTAAGCAGT AAGGCTGGAG TATTAGGCAA ATCCGGTA	398
	(2) INFORMATION FOR SEQ ID NO: 3642:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3642:	
	TAATGTCTAC ACTTTGCTTG CGATCATTCA TTTTAAAGCC AGACTTTTTA TAATCTTGTA	60
25	CAAATGCTTG CGCTACATCC TTGTGTTGAT CAAGCAATTC CCCTCTCAGT ACTAGCACAC	120
	AGCAATACGC ATCAGGLATA ACGTCATCAC CATGTTTCAA AGTCTTACCT TTGCCTAACT	180
30	TITCACCCAG TGCACCGAAT GGTTCGGCTA CAGAATACCC TGTAATTCTG TGTTCACTCA	240
50	ATGCGGCTGG CATTTCTGCT GGCGACATTT CATGATAGCT AAAATGCCCC GGTTTAATCT	300
	TTAATTGTTT ACGTAATTCC TCAAGTAAAA GATAATGTGL TGAATAACGA TGTGGLATAC	360
35	CAAAATGGKA ATCATCGCCA TTALTATTAA ATTCATTTAA GTGCATACCT TTTTGTCCCA	420
	TAATGACATT GCCTTCATG	439
	(2) INFORMATION FOR SEQ ID NO: 3643:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3643:	
	ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA	60
50	TCTATATTTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGAG ACTAGCGGGA	120
	TCGAACCGTG ACCTCCTGCG TGCAAAGCAG GCGCTCTCCC AGCTGAGCTA AGCCCCCAAA	180

	GCGTGCGCTC TAACCAGCTG AGCTATAGGC CCATTAATTT GAATGAACAA ACATTCAAAA	300
	CTGAATACAA TATGTCACGT TATTCCGCAT CTTCTGAAGA AGATGTTCCG AATATATCCT	360
5	TAGAAAGGAG GTGATCCAGC CGCACCTTnC GATACGGTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3644:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3644:	
	GCGAAACTGT ACGGAGCAAC GCCGCGTGAG TGATGAAGGT CTTCGGATCG TAAAACTCTG	60
20	TTATTAGGGA AGAACATATG TGTAAGTAAC TGTGCACATC TTGACGGTAC CTAATCAGAA	120
	AGCCACGGCT AACACGTGCC AGCAGCCGCG GTAATACGTA GGTGGCAAGC GTTATCCGGA	180
	ATTATTGGGC GTAAAGCGCG CGTAGGNGTT TTTTAAGTCT GATGTGAAAG CCCACGGNTC	240
25	AACCGTGGAG GGTCATTGGA AACTGGAAAA CTTGAGTGCA GAAGAGGAAA GTGGAATTCC	300
	ATGTGTAGCG GTGAAATGCG CAGAGATATG GAGGAACACC AGTGGCGAAG GCGACTTTCT	360
	GGTCTGTAAC TGACGCTGAT GTGCGAAACG TGGGGATCA	399
30	(2) INFORMATION FOR SEQ ID NO: 3645:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3645:	
	TATTATACTT TACATTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATC	60
	TTTCTTTGTG TTTGCTTTTA TTTTGACGTT TTAGACATAA AAAAAGAGAC CTTGCGGTCT	120
45	CAATGCGGCT CATCGCATCC ACTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	180
	ThCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	240
	CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAAATnAT ACATTCAAAA CTAGATAGTA	300
<i>60</i>	AGTAAAGTG GATTTTGCTT CGCAAAACAT TTATTTTGGA TTAAGTCTTC GATCGGATTA	360
	GTATTCGTCA GCTCCACATG TCACCATGGC TTCCACCTCG	400
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 758 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3646:	
10	AGATAAGTAA GTAAAATATA GATTITACCA AGCAAAACCG AGTGAATAAA GAGTTTTAAA	60
	TAAGCTTGAA TTCATAAATA ATCGCTAGTG TTCGAAAGAC ACGAnCAAGA TTAATAACGC	120
15	GTTTAAATCT TTTTATAAAA GAACGTAACT TCATGTTAAC GTTTGACTTA TAAAAATGGT	180
	GGAAACATAG ATTAAGTTAT TAAGGGCGCA CGGTGGATGC CTTGGCACTA GAAGCCYATG	240
	AAGGACGTTA CTAACGACGA TATGCTTTGG GGAGCTGTAA GTAAGCTTTG ATCCAGAGAT	300
20	TTCCGAATGG GGAAACCCAG CATGAGTTAT GTCATGTTAT CGATATGTGA ATACATAGCA	360
	TATCAGAAGG CACACCCGGA GAACTGAAAC ATCTTAGTAC CCGGAGAAGA GAAAGAAAAT	420
	TCGATTCCCT TAGTAGCGGC GAGCANAACG GGAAGAGCCC AAACCAACAA GCTTGCTtGg	480
25	GGGTnTGTag GACACTCTAT ACGGATTACA AAGGACGACA TTAGACGAAT CATCTGGAAA	540
	GATGAATCAA AGAAGGTAAT AATCCTGTAG TCGAAAATGT TGTCTCTCTT GAGTGGATCC	600
30	TGAGTACGAC GGAGCACGTG AAATTCCGTC GGAATCTGGG GAGGACCATC TCCTAAGGCT	660
	AAATACTCTC TAGTGACCGA TAGTGGAACC aGTaCCGTGA GGGAAAGGTg AAAAGCACCC	720
**	gGAAgGnAGT TGAAATAGAA CLGGAAACCG TGTGCTTA	758
35	(2) INFORMATION FOR SEQ ID NO: 3647:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3647:	
45	ACAAACTCCG AATGCCAATT AATTTAACTT GGGAGTCAGA ACATGGGTGA TAAGGTCCGT	60
	GTTCGAAAGG GAAACAGCCC AGACCACCAG CTAAGGTCCC AAAATATATG TTAAGTGGAA	120
	AAGGATGTGG CGTTGCCCAG ACAACTAGGA TGTTGGCTTA GAAGCAGCCA TCATTTAAAG	180
50	AGTGCGTAAT AGCTCACTAG TCGAGTGACA CTGCGCCGAA AATGTACCGG GGCTAAACAT	240
	ATTACCGAAG CTGTGGATTG TCCTTTGGnA TGGGTAAGGA GAGCGTTCTA AGGGCGTTGA	300

	ANDACOGGIO AGARICCOGI CCACCGAIIG ACIAAAGGII	400
	(2) INFORMATION FOR SEQ ID NO: 3648:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 521 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3648:	
15	GTCATTGGAA ACTGGAAAAC TTGAGTGCAG AAGAGGAAAG TGGAATTCCA TGTGTAGCGG	. 60
	TGAAATGCGC AGAGATATGG AGGAACACCA GTGGnCGAAG GCGACTTTCT GGTCTGTAAC	120
	TGACGCTGAT GTGCGAAACG TGGGGATCAA ACAGGATTAG ATACCCTGGT AGTCCACGCC	180
20	GTAAACGATG AGTGCTAAGT GTTAGGGGGT TTCCGCCCCT TAGTGCTGCA GCTAACGCAT	240
	TAAGCACTCC GCCTGGGGAG TACGACCGCA ANGTTGAAAC TCAAAGGAAT TGACGGGGAC	300
	CCGCACAAGC GGTGGAGCAT GTGGTTTAAT TCGAAGCAAC GCGAAGAACC TTACCAAATC	360
25	TIGACATCCT TIGACAACTC TAGAGATAGA GCCTTCCCCT TCGGGGGACA AAGTGACAAG	420
	TGGTGCATGG TGTCGTCAAC TCCTGTCGTT GAGATGTTGG GGTAAnTCCC CGCAAnGAGC	480
30	GCACCCTTAA GCCTTAGTTT nCATCATTAA GTTGGGCACT C	521
	(2) INFORMATION FOR SEQ ID NO: 3649:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3649:	
	CCAAAGTTCA TCTTTTACGA ATGAGAAATA GGTGTTGCAT ATTCAATGGT CTCATCTTGT	60
	TTATAAAAGC CACCATCTAA ATCACTAATC CATTGTGGTA AGTCTCCAAG TTCGTCTTCC	120
45	ATACGTGTTT TAACACGTTC GTATCCCATT GCATCCCATA ATTGGAATGG ACCAAGTTTC	180
	CAGTTGAACC CCCAGACAAG CGCACGGTCT ATGTCTCGGA AATCATCGGT AGCTTTAGGT	240
50	ACATTGATAG CAGAGTAATA GAAATTATTA CGTAATGTCT CCCATAAAAA TAGTCCCGCT	300
	TCGTCTTGCG CATTGAATAT GGTATCAAKG TTATGCACTA AGTCTTTATT AAATTCATTT	360
	AAAATTGGTA ATTGTGGTTG CGATACAGGT ACATAATCTT	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3650:	
10	GCGATAATAA AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGn CCGTTAAGGC	60
	CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC ATTATTATAG	120
15	GTAAATCGCT ATTAATTATA AAATTAAATG GCGGTCTCGA CGGGAATCGA ACCCGCGATC	180
	TCCTGCGTGA CAGGCAGGCG TGTTAACCGC TACACTACGA GACCATTAGT AAAACGGAGG	240
	AAGAGGGATT CGAACCCCCG CGAGCCGTTA AGCCCCTGTC GGTTTTCAAG ACCGATCCCT	300
20	TCAGCCGGAC TTGGGTATTC CTCCAAAATT ATATGGACCT TGCAGGACTC GAACCTGCGA	360
	CCGAACGGTT ATGGAGCCGT TAGCTCTAAn CAACTTGAGC	400
25 30	(2) INFORMATION FOR SEQ ID NO: 3651: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3651:	
35	TGGCGCTGTG CTTTAGTAAA ACTATGGTCA TGTTGCGCTA AATGCAACCA TGCATGGTAA	60
	AAACTTTGCT CACGCTTCGG CATTGTCCAA CTCGATAGAA ATTGATCGAT ATAAAGTTTC	120
	GTCCATTTAA TCATTTGACG ATTCACTTGT TCGCTAAGTG GCTCACCTTG TTCATCTATT	180
40	ATTGCATCAC TCATCGGACG TACATCATAG TGATGATATG ATTCAGCCAT ATCACGTTTT	240
	GATTTTTCTA ATAGTAGATC AGCAACAACA TCAACATTTG AATGATTCAT ATATGATGGC	300
	AGGTACGTCT TTTAATGTTT TAATGTTATC AATATAAAGA TGATGTAGTG TTGCGGGATA	360
45	TGTAGTGANG TTCAAGTAAC ATATCAGTAA CAAGTTGATT	400
	(2) INFORMATION FOR SEQ ID NO: 3652:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3652:	
	CATTGTCCAA AGGACAATCC ACAGCTTCGG TAATATGTTT AGCCCCGGTA CATTTTCGGC	6
5	GCAGTGTCAC TCGACTAGTG AGCTATTACG CACTCTTTAA ATGATGGCTG CTTCTAAGCC	12
	AACATCCTAG TTGTCTGGGC AACGCCACAT CCTTTTCCAC TTAACATATA TTTTGGGACC	18
	TTAGCTGGTG GTCTGGGCTG TTTCCCTTTC GAACACGGAC CTTATCACCC ATGTTCTGAC	24
10	TCCCAAGTTA AATTAATTGG CATTCGGAGT TTGTCTGAAT TCGGTAACCC GAGAGGGGCC	30
	CCTCGTCCAA ACAGTGCTCT ACCTCCAATA ATCATCACTT GAGGGCTAGC CCTAAAGCTA	36
15	ATTTCGGAGA GAACCAGCTA TCTCCAGGTT CGATGGAATT	40
15	(2) INFORMATION FOR SEQ ID NO: 3653:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
, 25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3653:	
	GGTTCGGTCC TCCATTCAGT GTTACCTGAA CTTCAACCTG ACCAAGGGTA GATCACCTGG	60
	TTTCGGGTCT ACGACCAAAT ACTAAACGCC CTATTCAGAC TCGCTTTCGC TACGGCTCCA	120
30	CATTTACTGC TTAACCTTGC ATCAAATCGT AACTCGnCGG TTCATTCTAC AAAAGGCACG	180
	CCATCACCCA TTAACGGGCT CTGACTACTT GTAAGCACAC GGTTTCAGGT TCTATTTCAC	240
35	TCCCCTTCCG GGGTGCTTTT CACCTTTCCC TCACGGTACT GGTTCACTAT CGGTCACTAG	300
	AGAGTATTTA GCCTTAGGAG ATGGTCCTCC CAGATTCCGA CGGAATTTCA CGTGCTCCGT	360
	CGTACTCAAG NATCCACTCA AGAGAGACAA CATTTTCGAC	400
10	(2) INFORMATION FOR SEQ ID NO: 3654:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3654:	
50	AAAGGTCCTA AATATAATTT TACAACTAAT AAATAGTGGC GGTGGAGGGG ATCGAACCCC	60
	CONCORDING COMPAGNICO OTROCCOTOTA COCROTORO CTROSCOCO TERMADACIO	

	GEOGRAPHIC AGENCAGETA AGENCATA ATACTTACAG TATATEGGGA AGACAGGATT	240
	CGAACCTGCG ACCCCTTGGT CCCAAACCAA GTGCTCTACC AAGCTGAGCT ACTTCCCGTA	300
5	TAATTAACGC GCCCGATAGG AGTCGAACCC ATAACCTCTT GATCCGTAGT CAAACGnTCT	360
	ATCCAATTGA GCTACGGGCG CATATGTTTT TATTGAAAAT	400
10	(2) INFORMATION FOR SEQ ID NO: 3655:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3655:	
20	TATTGAAGCC TGAGTCAACA CGTACGCAAA TCGATCAAAT CATCGATGAA GCGAAACATA	60
	CAATTTTAAA TCTGTATGTG TGAATCCAAC ACATGTTAAA TATGCAGCAG AGCnnCTAGC	120
	TGATTCAGAG GTGCTCGTTT GTACGGTAAT AGGATTCCCA TTAGGTGCGT CGACAACTGC	180
25	AACGAAAGCA TTTGAAACAG AAGATGCAAT TCAAAATGGT GCAGATGAAA TTGACATGGT	240
	CATCAACATC GGCGCATTAA AAGATGGACG TTTTGATGAT GTACAACAAG ACATTGAAGC	300
30	AGTGGTTAAA GCTGCGAAAG GTCACACAGT AAAAGTGGAT TATTGAGACG GTATTGTTGG	360
30	GACCATGACG AAATTGTAAA AGCGAGTGGA ATTAACCAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3656:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 530 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3656:	
	GATGAGTCGC TGnCTGATCT GAACGCTGTC TGAGnCCGAA CGCTACTGAA CTGAGTCGCT	60
45	GTCTGAGTCT GAATCGCTAT CTGAATCTGA GTCGCTATCT GAGTCTGAGT CGCTGTCTGA	120
	GTCTGAGTCG CTGTCTGAGT CTGAATCGCT ATCTGAATCT GAGTCGCTGT CTGAGTCTGA	180
50	GTCGCTATCT GAGTCTGAGT CGCTGTCTGA ATCTGAGTCG CTGTCTGAAT CTGAATCGCT	240
-	GTCTGAGTCT GAATCGCTAT CTGAGTCTGA ATCGCTATCT GAGTCTGAAT CACTGTCTGA	300
	GTCCGAGTCA CTGTCTGAAT CTGACTCACT ATCTGATTCT GAGTCGCTAT CTGATTCTGA	360
	•	

	ATCTGAACCT GAGTCGCTGT CTGAGCCTGA AGTCACTGGT CTGAATCCGA ATCCGGATCC	480
5	GGGTCTGGGG CTTGGGTTCC GGTTCTGGGT CTGGGACTTG GGTTCTGGGA	530
	(2) INFORMATION FOR SEQ ID NO: 3657:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3657:	
	GTTTTAACTA CGCAAGACAT CGAAGAAGCT GACGGTGTCA TAATTGCAGC TGATAAACAA	60
	GTTGATCTGT CCCGATTTGT TGGTAAACGG TTGATTAATG AAAATGTTCG CGAAGGGATT	120
20	CATAATCCGA GAGGTCTAAT TCAACGTATC ATTAATCAAG ATGCGCCTAT TTATCAATCT	180
	GAAACAAATT ATCATTCGAA AGATCGCGGT AAGTCTAAAA ATGGTATTCA AATGGTGTAT	240
	CAACATTTAA TGAACGGTGT ATCGTTTATG GTTCCTTTTA TCGTAGTTGG TGGACTCCTT	300
25	ATCGCCATCG CGCTGGACTC TAGGCGGTGA ACGACATCAA AAGGATTAGT CATCCCAGAT	360
	GGATTCATTT TGGGAAATCC ATTGGAAAAC ATTGGGTAGT	400
30	(2) INFORMATION FOR SEQ ID NO: 3658:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 668 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3658:	
40	GAAGAAGTTT ATGAAACGGT TATGAATAAG CCATACACTA GATATCCAGT GTACGAGGGA	60
	GATATTGATA ACATTATTGG GGTGTTTCAT TCTAAATATC TGTTGGCTTG GAGTAATAAA	120
	AAAGAAAATC AAATTACAAA CTATTCAGCT AAGCCATTAT TTGTGAATGA ACACAATAAA	180
45	GCTGAATGGG TATTACGTAA GATGACTATT TCTAGAAAAC ATTTAGCAAT TGTGTTGGAC	240
	GAATTTGGTG GTACTGAAGC GATAGTGTCA CATGAAGACT TAATTGAAGA ATTATTAGGT	300
	ATGGARATTG AAGATGAGAT GGATAAAAAG GAAAAAGAAA AACTTTCTCA ACAGCAAATT	360
50	CMATTICAAC AACGGAAAAA TCGCMACGTA TCTATATAAG GNGCGAACAG CTATGTGGTA	420
	ATAAGAATCG ACTTACTCAA ATGTTAAGTA TTGAATATCC AATTATACAA GCAGGTATGG	480

	TAGGCGCGGT TACTTTAATA CGCAGCAATT GGAAGATGAA ATAGATTATG GTACGCCAAT	600
	TAACGTCAAA TTCTTTTGGC GTAAATGTCT TTGGTACCAA GTCAACAATC ATATACCAGT	660
5	AGTCAAAT	668
	(2) INFORMATION FOR SEQ ID NO: 3659:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3659:	
	AAAAGAATGG TAAGTTGAAT AAAGTATTGA AATCAATTGC CAATATCTTT ATACCGTTGA	60
20	TTCCTGnATT TATTGGAGCT GGATTAATTG GTGGTATTGC AGCAGTACTG AGTAACTTAA	120
	TGGTGGCAGG CTATATTTCA GGTGCTTGGA TTACGCAACT TATAACAGTA TTTAATGTCA	180
	TTAAAGACGG TATGTTAGCA TACTTAGCTA TTTTCACTGG TATTAATGCG GCTAAAGAAT	240
25	TTGGTGCGAC ACCAGGACTT GGTGGCGTGA TTGGTGGTAC AACGTTATTA ACGGGTATTG	300
	CTGGTAAAAA TATTTTAATG AATGTCTTCA CTGGAGAACC ATTGCAACCT GGACAANGTG	360
	GGATTATTGG CGTTATTTTG CCGTTTGGAA TTTAAGTAAT	400
30	(2) INFORMATION FOR SEQ ID NO: 3660:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3660:	
	CTGAGCTAAT GGCTCTTCCA TGGTGCCGGC CAGAGGACTT GAACCCCCAA CCTACTGATT	60
	ACAAGTCAGT TGCTCTACCA ATTGAGCTAG GCCGGCAATA TGTAAGAATA AATGGTGGAG	120
45	AATGACGGGT TCGAACCGCC GACCCTCTGC TTGTAAGGCA GATGCTCTCC CAGCTGAGCT	180
	AATTCTCCGA TTTAAAACTG CCTGGCAACG TTCTACTCTA GCGGAACGTA AGTTCGGACT	240
	ACCATCGACG CTAAGGAGCT TAACTTCTGT GTTCGGCATG GGAACAGGTG TGACCTCCTT	300
<i>50</i>	GCTATAGTCA CCAGACATAT GAATGTAATT TATACATTCA AAACTAGATA GTAAGTAAAA	360
	GTGATTTGn TTTCGCAAAA CATTTATTTT GGATTAAGTC	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3661:	
10	TGATGTTTGA TTAGCTCATA AATACTAAAT AATGTTTGTA ACTTATAGTT ACGTTTTTTG	60
	GAATTAACGT TGACATATTG TCATTCAGTT TTCAATGTTC ATTTTTCTTA CCGACAAGAA	120
	TTAATTATAC ATTTTATTAA CATTTAAGTC AATAACTTTT TTTATCTTGT CCATTTTATT	180
15	TTTTAACCAA AATTTGATTA AAAAACTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	240
	TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	300
20	CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTA	360
	AGTAAAAGTG ATTTTGCnTC GCAAACATTT ATTTTGATTA	400
	(2) INFORMATION FOR SEQ ID NO: 3662:	•
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 742 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3662:	
•	CGCTCAACGT CTGCCTTCGT AATGGCTTTT GTAGAAATTC TAACTAAATA ATTTCGAATG	60
35	CTATCATTGA TTGTTTCAAC AGCTTGATGC TTTTGTTCAA GCTTTTTGAT CAATTTTTTA	120
	TCGTCTTTTG TAATTTCGCG AATGTCTTCA AACATTGATA AGACAATCTG ACCCACATTT	180
40	TGTAATTCTT TTTGAGTTTC TTGTAATGCA ACACCAGGTG CGTGATAAAC AAGATCTTTG	240
	TTTAAGTGCT GAGGTTTATA GTCATCAGCA ATATCTTTAC CTGGGACAAG CTTTGTAACA	300
	ATCCATGCTA AACCTGCTAC AAATGGTAAT TGAATCAAAG TATTTGTTAT GTTGAAGATA	360
45	CCATGTGATA CTGCAATCGT CATCGCTGGT TTTAAGTGCC ATAAATCTTG TAACAAACTA	420
	ATCAAATGAA TCACAACTGG CAAGAAAATT GTGAAGATAA TTACCCCGAT TAAGTTAAAG	480
	ATGACGTGTA CAAGCGCCGC ACGTTTTGCA GCGATTGAGC CGGCTAAACT AGCTAAGATA	540
50	GCTGTAATCG TGGTACCAAT GTTATCGCCT AGLAACACAG GGATKGCTGC GTTTAAGCTA	600
	ATTARATCTT GTTGATARAR TTCTTGTARA ATACCARTCG TCGCACTTGR ACTTTGRACT	660

	AGCATTAAAT TGGCTTnAAA TC	742
	(2) INFORMATION FOR SEQ ID NO: 3663:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(5) 10102001. 1111car	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3663:	
15	ATGAATTCAA GCTTATTTAA AACTCTTTAT TCACTCGGTT TTGCTTGGTA AAATCTATAT	60
	TTTACTTACT TATCTAGTTT TCAATGTACA ATTTCTTTTT AGTCAAGCGC TCGCATACTG	120
	CTTTATTTTC AAAAAATCAA ATGCTCATTT ACAAAAGTAA ACTCCGCTTT AATTTTTCTT	180
20	AATGCATTGT CTAACAACCG CTTTCTTTAA AAAGAATAGA TTGTCAAGCG CTCGCATAAG	240
	CAATATCACT TTAACCAAAA AATATTTGAA TGTTAAATAA ACATTCANAA CTGAATACAA	300
	TATGTCACGT NATTCCGCAT CTTCTGAAGA AGATGTTCCG AATATATCCT TAGAAAGGAG	360
25	GTGATCCAGC CGCACCTTCC GATACGGGCT ACCTnGTnAC	400
	(2) INFORMATION FOR SEQ ID NO: 3664:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 636 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3664:	
•	AACTAATAGT TCACTTTTAC TTTTTTCTTT TTCATTATTA TCCATTATTT TTTCACCGCC	60
40	AAAACGAATT TCATGATGTT AATTTAAATG TTCTATGACA AAATTAAGCA ACGATGTTET	120
	ATATTTATTT CCAACTATGT CTAGATTAAA TTTCTAAAAA TAKACATCAT TTAAAAGGAG	180
	CTTGGGACAT AAATCAATGT CCTAGGGTCT ATAATATTAT AKTGCTAGTA GTTGACTGAA	240
45	TGAAAATGCG CTTGCAACAA GCTTTTTTCA ACTCTAGTCA GGGGCCCCAA CACAGAGAAT	300
	TTCGAAAAGA AATTCTACAG GCAATGCGAG TTGGGGTGTG GGCCCCAACA CAGAGAATTT	360
	CGAAAAGAAA TTCTACAGGC AATGCGAGTT GGGGTGTGGG CCCCAACACA GAGAATTTCG	420
50	AAAAGAAATE CTACAGGCAA TGCGAGTTGG GGTGTGGGCC CCAACATAGA GAAATGGATT	480
	CCCASTTTCT ACAGACAATG CAAGTTGGCG GGGCCCCAAC ACAGAAGCTG ACGAAAAGTC	540

	TACAATAATG nGCAAGTTGG CGGGGnCCCC AACACA	636
	(2) INFORMATION FOR SEQ ID NO: 3665:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 404 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3665:	
15	TATCATTTCC TGTTGCTAAA ACAACAGCAT GTATGCCATT CATAACACCT TTATTATGTG	60
	TTGCTGCACG ATGAATATCT ACTTGGGCCA ATACAGAAGC ACGTTCCATT CGTTTGGCAA	120
	CCTCTTCTCC AGTTCTCTCG CCCCTTGCTA AATCTTTAAC ATCAATTTCG CCTTGAACTT	180
20	TARCARCEGA CECTETTECA TEATTEGATA ARATACTCAT TARRATETCE CTTTEGERAR	240
	ETCATTTTT AAAAATGCAG ITATGGCCTC TAAAATCGTA TTAAGCATAT TAGCGCCCAT	300
	AGCATCTTTC GTATCAACAA ATACTTTTAA AGATAGTAAC TGLTGCTCAG GYAATGTAKC	360
25	MATCGCTATA CGTTGGTAAC CACCACCACG CGCTTTAATA GGAA	404
	(2) INFORMATION FOR SEQ ID NO: 3666:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3666:	
	GTGGTTCCAG TAGCAATTAT TGAACGATAT TAGGCTATCT AGTCGGCATA TTTGTAAAAC	60
40	AAGATCCAAT TAAATATCAA CAGGAATAAC GAATAATATA AAAGAGGTTG GGACATAAAT	120
40	CCCTAAAAAA ACAGCAGTAA GATAATTTTC AATTAGAAAA TATCTTACTG CTGTTCTCTA	180
,	TTTATACAAT ACTTCGTATT GAATGGCTTC GCTTTCCTAG GGTGCCGTCT CAGCCTCGGT	240
45	CTTCGACTGG CACTGCTCCC TCAGGAGTCT CGCCATTAAT ACTACGTATT AACGTGTAAT	300
\	TTTACTTTGA AATACTTTAA AAAAATAAGA CACTTTGCCC AACTTGCACA TAAATGTAAA	360
	ATTCAATAAA ATAAATTTCT GTGTTGGATC CCTnCGTATA	400
<i>50</i>	(2) INFORMATION FOR SEQ ID NO: 3667:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3667:	
	CCAACAAATC TGTCTGTCGC ATCGCCTTTG TCGTTCCAAA TAAATATGTA CAAACGAATC	60
10	CACCAGCATA CGCnCCAAGT AATCCTGCAA TATAACCTAA ATACATATTA TCTGAGATTA	120
	ATGGTAATAG TGACACACCA CTTGGGCCTA TTGCTTTGGC ACCAATATGT CCAATTCCAC	180
	CTATTACAGC GCCACCAATA CCACCACCAA TACAAGCAGT TAAGAAAGGT CGACCTAATG	240
15	GCAAAGTCAC ACCATAGATT AATGGTTCTC CGATACCTAG GGAAACCAAC TGGCAATGCA	300
	CCTTTTAAAG TATTACGTAA TGTTGTGTTG CGGTTTACAT CTTACCCAAA GTGCTAATGC	360
20 .	GGGCACCTAC TTGGTCCCAG CACCAGCCAT CGCTGCAATT	400
	(2) INFORMATION FOR SEQ ID NO: 3668:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3668:	
	ACTAAGATGT TTCAGTTCTC CGGGTGTGCC TTCTGATATG CTATGTATTC ACATATCGAT	60
35	AACATGACAT AACTCATGAC TGGGTTTCCC CATTCGGAAA TCTCTGGATC AAAGCTTACT	120
35	TACAGCTCCC CAAAGCATAT CGTCGTTAGT AACGTCCTTC ATCGGCTTCT AGTGCCAAGG	180
	CATCCACCGT GCGCCCTTAA TAACTTAATC TATGTTTCCA TCCTACAGGA AACGCGTTAT	240
40	TAATCTTGTG AGTGTTCTTT CGAACACTAG CGATTATTTC TTATGAATTC AAGCTTATTT	300
	AAAACTCTTT ATTCACTCGG TTTTGCTTGG TAAAATCTAT ATTTTACTTA CTTATCTAGT	360
	TTTCAATGTA CAATTTCTTT TTAGTCAAGC GCTCGCATAA	400
45	(2) INFORMATION FOR SEQ ID NO: 3669:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3669:

	GAGCGCTACT TACTGGNAGG CGCTGGTGGG ATACTACCCT AGCTGTGTTG GCTTTCTAAC	120
_	CCGCACCACT TATCGTGGTG GGAGACAGTG TCAGGCGGGC AGTTTGACTG GGGCGGTCGC	180
5	CTCCTAAAAG GTAACGGAGG CGCTCAAAGG TTCCCTCAGA ATGGTTGGAA ATCATTCATA	240
	GAGTGTAAAG GCATAAGGGA GCTTGACTGC GAGACCTACA AGTCGAGCAn GGTCGAAAGA	300
10	CGGACTTAGT GATCCGGTGG TTCCGCATGG AAGGGCCATC GCTCAACGGA TAAAAGCTAC	360
	CCCGGGGGAT AACAGGCTTA TCTCCCCCAA GAGTTCACAT	400
	(2) INFORMATION FOR SEQ ID NO: 3670:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3670:	
	ATACTITACA TITCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATCTTTC	60
25	TTTGTGTTTG CTTTTATTTT GACGTTTTAG ACATAAAAA AGAGACCTTG CGGTCTCAAT	120
	GCGGCTCATC GCATCCACTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTCG	180
30	ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC	:240
	CTTGCTATAG TCACCAGACA TATGAATGTA AATTATACAT TCAAAACTAG ATAGTAAGTA	300
	ARAGTGATTT TGCTTCGCAA AACATTTATT TTGATTAAGT CTTCCGATCG ATTAGTATTC	360
35	CGTCAGCTCC ACATGTCACC ATGCTTCCAC CTCCGAACCT	400
	(2) INFORMATION FOR SEQ ID NO: 3671:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3671:	
	CACCCGAAGA TATTGCTCAG ACAAAGTCAT CATATACAGG AAAGTATTTA AAAGAAGTAC	60
50	TTGAACGAGA TAAACAAAAT ACTGAAGATA AATAAGATTA AAAGAAGTGA AGGATGTTAT	120
	AAATTTATCC TTCGCTTCTT TTTATTAATT TAGTAATGAA TAGTAGAAAG AAAAGATGCG	180
	TAAAAAGAAT TATGTTAAGA TAGGGTCAAT CTAGAGTAGT TAAACATAAA TCGAACTGGG	240

	TTAGCCACAG CTATTGTGTA CTTAAAAATA GGAATGCATG AGTGCACCNA NAGGNAGAAT	360
	ACTAATTTCC AAAGAAAAAG TATTCCTTAT GTTGGGGCCC	400
5	(2) INFORMATION FOR SEQ ID NO: 3672:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3672:	
	TGGACCTGTA AAAGGAGACT CGATTGTAGA AAAAGAAGAG ATTCCATTCG AGAAAGAACG	60
	TAAATTTAAT CCTGATTTAG CmCCaGGGAC AGAAAAGTA mCmAGAGAAG GACaAAAAGG	120
20	TGAGAAGACA ATAACGACAC CAACACTAAA AAATCCATTA ACTGGAGTAA TTATTAGTAA	180
	AGGTGAACCA AAAGAAGAAA TCACAAAAGA TCCGATTAAT GAATTAACAG AATACGGACC	240
25	AGAAACGATA ACACCAGGTC ATCGAGACGA ATTTGATCCG AAGTTACCAA CAGGAGAGAA	300
25	AGAAGAAGTT CCAGGTAAAC CAGGAATTAA GAATCCAGAA ACAGGAGACG TAGTTAGACC	360
	ACCGGTCGAT AGCGTAACAA AATATGGACC TGTAAAAGGA GACTCGATTG TAGAAAAAGA	420
30	AGAGATTCCA TTCAAAACGT AAATTTAATC CGGATTTAGC A	461
	(2) INFORMATION FOR SEQ ID NO: 3673:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3673:	
	CTTATGAATT CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA	60
45	TATTITACTT ACTTATCTAG TITTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGA	120
	ACCGCTGACC TCCTGCGTGC AAAGCAGGCG CTCTCCCAGC TGAGCTAAGC CCCCAAANAG	180
	GTATTAAATT AATGGGGGC CTAAGTGGAC TCGAACCACC GACCTCACGC TTATCAGGCG	240
50	TGCGCTCTAA CCAGCTGAGC TATAGGCCCA TTAATTTGAA TGAACAACA TTCAAAACTG	300
	AATACAATAT GTCACGTTAT TCCGCATCTT CnGAAGAAGA TGTTCCGAAT ATATCCTTAG	360
	AAAGGAGGTG ATCCAGCCGC ACCTTCCGAn ACGGCTACCT	400
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3674:	•
	ACATGAAGAC TTAATTGAAG AATTATTAGG TATGGAAATT GAAGATGAGA TGGATAAAAA	60
	GGAAAAAGAA AAACTTTCTC AACAGCAAAT TCAATTTCAA CAACGGAAAA ATCGCAACGT	120
15	ATCTATATAA GGAGCGAACA GCTATGTGGG AATAAGAATC GACTTACTCA AATGTTAAGT	180
	ATTGAATATC CAATTATACA AGCAGGTATG GCAGGAAGTA CGACACCGAA ATTAGTTGCA	. 240
	TCAGTAAGTA AACAGTGGTG GGTTAGGCAC AATAGGCGCG GTTACTTTAA TACGCGCCAA	300
20	TTGGANGATG GANATNGATT ATGTACGCCA TTAACGTCAA ATTCTTTTGG CGTAAATGTC	360
	TTTGTACCAA GTCAACAATC ATATACCAGT AGTCCAAATT	400
25	(2) INFORMATION FOR SEQ ID NO: 3675:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3675:	
35	AGCTAGGCCG GCAATATGTA AGAATAAATG GTGGAGAATG ACGGGTTCGA ACCGCCGACC	60
	CTCTGCTTGT AAGGCAGATG CTCTCCCAGC TGAGCTAATT CTCCGATTTA AAACTGCCTG	120
	GCAACGTTCT ACTCTAGCGG AACGTAAGTT CGACTACCAT CGACGCTAAG GAGCTTAACT	180
40	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240
	TAATITATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TITGCTTCGC AAAACATTTA	300
	TTTTGATTAA GTCCTCGTCG TTAGTATTCG TCAGCTCCAC ATGTCACCAT GCTTCCACCT	360
45	CGGACCTATT AACCTCATCA ACCTTGAGGG nTCTTATAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3676:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 3676:	
	TGGACAATGG TAGGAGAGCG TTCTAAGGGC GTTGAAGCAT GATCGTAAGG ACATGTGGAG	6
5	CGCTTAGAAG TGAGAATGCC GGTGTGAGTA GCGAAAGACG GGTGAGAATC CCGTCCACCG	120
	ATTGACTAAG TTTCCAGAGG AAGGCTCGTC CGCTCTGGGT TAGTCGGGTC CTAAGCTGAG	180
10	GCCGACAGCG TAGGCGATGG ATAACAGTTG ATATTCCTGT ACCACCTATA ATCGTTTTAA	240
,,,	TCGATGGGGG GACGCATAGG ATANGCGAAN GTGCGATTGG ATTGCACGTC TAAGCAGTAA	300
	GGCTGAGTAT TAGGCAAATC CGGTACTCGT TAAGGCTGAG CTGTGATHGG GAGAAGACAT	`360
15	TGAGTCTTCG AGTCGTTGAT TTCACACTGC CGAGAAAAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3677:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3677:	
	AAAGCGCCAC ATGGTGCCAA GTCTGGAGTT AATCCAGCAA TTGCTTGTTT TAAGCTATTA	60
30	TATTTTCTT CTACTTTGT TTTTTCTGCG GCAATTTGTT GGTCAGTCGC ATCACCATTG	120
	TTAATAACAT TTTGTGCATT TGTTGATTCT GTTTGACCCG CACGTTTAGC ATTTTCATAT	180
	GCTTGGATTG ATGATTGTGT CATACCATCA GTAGTTACTG ATTTATTGAT TTCTTCATCA	240
35	AGTTTCGTCT TAGCAGTTTT TAAAGCACTA TTATCAGCTA AAGGTACTAA TTGGATTAAT	300
	TGCTTGCGTT AATCGCTCAT TGACACGATT TACATTTGTT AACGCAGATT GCACTTCTTG	360
	TACTGTTCTT AATGGGCTTT TGGAATAATA GCATTAGCGC	400
40	(2) INFORMATION FOR SEQ ID NO: 3678:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 648 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3678:	
50	ACAGTCAATT GNTCTACCAA TTGAGCTAGG CCGGTTAAGA AATGGTTCCA GGACAGAGTC	60
	GAATGCCGAC ACATGGAGCT TCAATCCATT GCTCTAACCA ACTGAGCTAC TGAACCATAA	120
55		

	AGGOGTGTTA ACCGCTACAC TACGAGACCT ATAAAATATT GCGGGAGGCG GATTTGAACC	240
_	ACCGTACTTC GGGTTATGAG CCCGACGAGC TACCGAACTG CTCCATCCCG CGATAATAAA	300
5	AAATAATGGC GGAGGAAGAG GGATTCGAAC CCCCGCGGCC CGTTAAGGCC tGTCGGTTTT	360
	CAAGACCGAT CCCTTCAGCC GGACTTGGGT ATTCCTCCAT TATTATAGGT AAATCGCTAT	420
10	TAATTATAAA ATTAAATGGC GGTCTCGACG GGAATCGAAC CCGCGATCTC tGCGTGACAG	480
	GCAGGCGTGT TAAYCGCTAC ACTACGAGAC CATTAGTAAA ACGGAGGAAG AGGGATTCGA	540
	ACCCCCGCGA GCCGTTAAGC CCCTGTCGGT TTTCAAGACC GATCCCTTCA GCCGGGACTT	600
15	GGGGTATTCC TCCAAAATTA TATGGGACCT TGCAGGACTC GAACCTGC	648
	(2) INFORMATION FOR SEQ ID NO: 3679:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3679:	
	CTGATCCCGT TGTGCTTCAC ACCCGATAGA TAGGGATTTA CAGATAAATT CAGGTCTCTT	60
30	CCACGTCATA TTTGGACCCA TCGAAAATTC GGGTTCTCAA ATCATCGAAC ATAACAAAAG	120
	AAGCTAAGCA ACATGTAGGC CGTTGTCACT TAACTTCTTG TTTTTCCGAT GACAGCTTCT	180
	ATTTAGAGAA TGTCATGATT ATTTTATATT CACTTCAATG TTATCAATAT TAGTGCCATC	240
35	TATGACATCT GCCATGCGAT TTTCTTGTAA TTTTTTGTGC AATTCAAACG TGTACTTTCC	300
	ACCOTTTTC ATTITAATAA CAATTTTACC TGAACCAACG TTACCGTACA GATTATTTTT	360
40	TTCAATAAGT TGTTTTCTCA ATTTAAAATC AAGTTCTTTC	400
40	(2) INFORMATION FOR SEQ ID NO: 3680:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3680:	
	TCAATGCGGC TCATCGCATT CATTTCTTGT CTAGCAACGT TCTACTCTAG CGGAAnTAAG	60
	TTAGCTACCA TCCTCGCTAA GAACCTTTCT TGACTTGTGA CAATCGCTTG CTTCTTTCCT	120
55		

	TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT CTTTGTGTTT ACTTTTATT	240
5	TIGACGTTTT AGACATAAAA AAAGAGACCT CACGGTCTCA ACTTGCCTGG CAACGTTCTA	300
8	CTCTAGCGGA AGTAAGTTGG CTACCATCGT CGCTAAAGAC CTTTCTTGAC TTGTGACAAT	360
	CGCTTGGCTT CTnTCCTCTC CTTCGGnTCT CGGCTTACTC	400
10	(2) INFORMATION FOR SEQ ID NO: 3681:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3681:	
20	TCTTTCCTCT CCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG TTGCGCTCTT	60
	TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTCT TTGTGTTTAC	120
25	TTTTTATTTT GACGTTTTAG ACATAAAAA AGAGACCTCA CGGTCTCAAC TTGCCTGGCA	180
20	ACGITCTACT CTAGCGGAAC GTAAGTTGGC TACCATCGTC GCTAAAGACC TTTCTTGACT	240
	TGTGACAATC GCTTGCTTCT TTCCTCTCCT TCGGCTCTCG CTTACTCATT TAGCTCTACT	300
30	AAACTCGTTG CGCTCTTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA	360
	TTTTTTTTTG TGGTTTACTT TTTATTTTGA CGGTTTAGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3682:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3682:	
45	TTGAACATGT TGAATCTAAT GAAATTCTTG TTCGTCGTCT AGTTGAAGAG AACGGCGTTG	60
	AGCATGAAGG TGAATTAGAT CGCTATCCAT TAGCTAAATT TAAACGTTCA AACTCAGGTA	120
	CATGITACAA CCAACGICCA ATCGITGCAG TIGGAGATGI IGITGAGIAI AACGAGATII	180
50	TAGCAGATGG ACCATCTATG GAATTAGGAG AAATGGCATT AGGTAGAAAC GTATAGTTGG	240
	TTTCATGACT TGGGACGGTT ACAACTATGA GGATGCCGTT ATCATGAGTG AAAGACTTGT	300
	GAAAGATGAC GTGTATACTT CTATTCATAT TGAAGAGTAT GAATCAGAAG CACGTGATAC	360
55		

(2) INFORMATION FOR SEQ ID NO: 3683:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3683:	
	TTGGAATTTC TCCGCTACCC TCAGTTCATC CGCTCACTTT TCAACGTAAG TCGGTTCGGT	60
15	CCTCCATTCA GTGTTACCTG AACTTCAACC TGACCAAGGG TAGATCACCT GGTTTCGGGT	120
	CTACGACCAA ATACTAAACG CCCTATTCAG ACTCGCTTTC GCTACGGCTC CACATTTACT	180
	GCTTAACCTT GCATCAAATC GTAACTCGCC GGTTCATTCT ACAAAAGGCA CGCCATCACC	240
20	CATTAACGGG CTCTGACTAC TTGTAAGCAC ACGGTTTCAG GTTCTATTTC ACTCCCCTTC	300
	CGGGGTGCTT TTCACCTTTC CCTCACGGTA CTGGGTTCAC TATCGGTCAC TANGAGAGTA	360
	TTTAAGCCTT ANGAGATGGT CCTCCCAGAT TCCCGACGGG	400
25	(2) INFORMATION FOR SEQ ID NO: 3684:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 528 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(w.) Charles Brogning Co. In No. 2004	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3684:	
	GATHTATGAT GAAAAACTAT CTGACTGCTG TTTCACTTTT TATAAGACTT CTGAATGTCT	60
40	TCACTTATAC TTCTAGTCAC AGATTMAAAT AATCAAAAGT GCACATTATT AAAATATCAA	120
40	TTTCACACTC AATGCGGCTC ATCGCATTCA TTTCTTGTCT AGCAACGTTC TACTCTAGCG	180
	GAACGTAAGT TAGCTACCAT CCTCGCTAAG AACCTTTCTT GACTTGTGAC AATCGCTTGC	240
45	TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC TACTAAACTC GTTGCGCTCT	300
	TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATTTTTC TTTGTGTTTA	360
	CTTTTTATTT TGACGTTTTA GACATAAAA AAGAGACCTC ACGGTCTCAA CTTGCCTGGG	420
50	CAACGTTCTA CTCTAGCGGA ACGTAAGTTG GCTACCATCG TCGCTAAAGA CCTTTCTTGA	480
	CTTGTGACAA TCGCTTGCTT CTnTCCTCTC CTTCGGCTCT CGGTTACT	528
	(2) INFORMATION FOR SEC ID NO. 3685.	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3685:	
10	AAATTATGGT CGATTGCGAA TGATTTAAGA GGGANCATGG ATGCGAGTGA ATTCCGTAAT	6
	TACATTTTAG GCTTGATTTT CTATCGCTTC TTATCTGAAA AAGCCGAACA AGAATATGCA	120
	GATGCCTTGT CAGGTGAAGA CATCACGTAT CAAGAAGCAT GGGCAGATGA AGAATATCGT	180
15	GAAGACTTAA AAGCAGAATT AATTGATCAA GTCGGTTACT TCATTGAGCC ACAAGATITA	240
	TTCAGTGCGA TGATTCGTGA AATTGAAACG CAAGATTTCG ATATAGAGCA TCTAGCGACG	300
	GCGATTCGCA AAGTTGAAAC ATCTACATTA GGTGANGAAA GTGAAAATGN CTTTATCGGG	360
20	CTGTTCAGCG ATATGGATTT GAGTTCAACG CGGCTAGGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3686:	
25 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 403 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3686:	
	TTAAATTATT GGTCTATCGG TTCTTGGGGT GGCCATGGTA TCTGTTCACT CTTCGGTGGT	60
35	GCAGTTGCGA CAACTATGGG TTGGAGATGG ATTTTCATCT TCTCAATTAT CGTTGCCGTA	120
	CTTTCAATGT TACTCATCAA AGGGACGCCT GAAACGAAAT CAGAAATTAC CAATACACAT	180
40	AAATTTGACG TTGCAGGGCT AATTGTTCTA GTAGTTATGT TGCTAAGTTT AAACGTTGTC	240
40	ATTACTARAG GTGCAGCACT TGGTTACACA TCATTATGGT TCTTTGGTTT GATTGCAATC	300
	GTAATTGTAG CATTCTTAT TTTCTTAAAT GTTGAGAAAA AAGTAGATAA TCCACTTATT	360
45	GATTTTAAAT TATTGAAAAT AAACCATATA CAGGTGCAAC GGT	403
	(2) INFORMATION FOR SEQ ID NO: 3687:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 449 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TATGAGCCCG ACGAGCTACC GAACTGCTCC ATCCCGCGAT AATAAAAAAT AATGGCGGAG	60
	GAAGAGGGAT TCGAACCCCC GCGGCCCGTT AAGGNCCTGT CGGTTTTCAA GACCGATCCC	120
5	TTCAGCCGGA CTTGGGTATT CCTCCATTAT TATAGGTAAA TCGCTATTAA TTATAAAATT	180
	AAATGGCGGT CTCGACGGGA ATCGAACCCG CGATCTCCTG CGTGACAGGC AGGCGTGTTA	240
	ACCGCTACAC TACGAGACCA TTAGTAAAAC GGAGGAAGAG GGATTCGAAC CCCCGCGAGC	300
10	CGTTAAGCCC CTGTCGGTTT TCAAGACCGA TCCCTTCAGC CGGACTTGGG TATTCCTCCA	360
	AAATTATATG GACCTTGCAG GACTCGAACC TGCGACCGAA CGGTATGAGC CGTAGCnCTA	420
15	ACCACTGGGC TAAAGTCCTA ATATAATTT	449
	(2) INFORMATION FOR SEQ ID NO: 3688:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3688:	
	AAAACGTCGT AATATGCAAA TTGAAGGTGC CAAGGTTGTT ATTCAAGGTT TChATAATGC	60
	CGGAAGTTTC TTAGCTAAAT TCTTATATGA TTTAGGTGCA AAAATTGTAG GTATCTCTGA	120
30	TGCTTACGGT GCATTACACG ATCCAAATGG CTTAGATATA GATTATTTAT TAGACCGTCG	180
	AGATAGTTTT GGTACGGTAA CAAATTTATT TGAAGAAACA ATCTCAAATA AAGAATTGTT	240
	TGAATTAGAT TGTGACATTT TAGTACCAGC GGCTATTTCA AACCAAATTA CAGAAGACAA	300
35	TGCACATGAT ATTAAAGCTA GTATCGTTGT TGAAGCTGCT AATGGACCTA CAACACCAGA	360
	AGCAACACGT ATTTTAACTG AACGTGGTAT ATTATTAGTT	400
10	(2) INFORMATION FOR SEQ ID NO: 3689:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3689:	
50	CACGCTTATC AGGCGTGCGC TCTAACCAGC TGAGCTATAG GCCCATTAAT TTGAATGAAC	60
	AAACATTCAA AACTGAATAC AATATGTCAC GTTATTCCGC ATCTTCTGAA GAAGATGTTC	120

	CGACTTCACC CCAATCATTT GTCCCACCTT CGACGGCTAG CTCCTAAAAG GTTACTCCAC	240
	CGGCTTCGGG TGTTACAAAC TCTCGTGGTG TGACGGGCGG TGTGTACAAG ACCCGGGAAC	300
5	GTATTCACCG TAGCATGCTG ATCTACGATT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT	360
	TGCAGACTAC AATCCGAACT GAGAACNACT TTATGGGGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3690:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 553 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3690:	
20	GCnGCGTTTT AGGCCCATTC GGTTACCCCC nTTCCATAAA TGGTGCCCGG CCAGAGGACT	60
	TGAACCCCCC AACTTACTGA TTACAAGTCA GTTGCTCTAC CAATTGAGCT AGGCCGGCTA	120
	AGAAATGGTT CAGGACAGAG TCGAACTGCC GACACATGGA GCTTCAATCC ATTGCTCTAC	180
25	CAACTGAGCT ACTGAACCAT AATAAAAATG TAATGATGGC GGTCTCGACG GGAATCGAAC	240
	CCGCGATCTC tGCGTGACAG GCAGGCGTGT TAACCGCTAC ACTACGAGAC CTATAAAATA	300
	TTGCGGGAGG CGGATTTGAA CCACCGaCtT CGGGTTATGA GCCCGACGAG CTACCGAACT	360
30	GCTCCATCCC GCGATAATAA AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGC	420
	CCGTTAAGGC CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC	480
35	ATTATTATAG GTANATCGCT ATTAATTATA ANATTAAAAT GGCGGTCTCG ACGGGAATCG	540
	AACCCGCGGA TCT	553
	(2) INFORMATION FOR SEQ ID NO: 3691:	• -
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3691:	
	TCAATGCGGC TCATCGCATC CATTTTTTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA	60
50	GTTGGCTACC ATCGACGCTA AGAACCTTTC TTGACTTGTG ACAATCGCTT GCTTCTTTCC	120
	TCTTCTTCGG CTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTTCTCGT	180

300

TTTGACGTTT TAGACATAAA AAAAAGAGAC CTTGCGGTCT CAATGCGGCT CATCGCATCC

	ATTTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG TTCGGACTAC CATCGACGCT	360
5	AAGGGAGCTT AACTTTCTGT GTTCGGGCAT GGGGAACAGG	400
	(2) INFORMATION FOR SEQ ID NO: 3692:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3692:	
	TCGAATACTG TCATGAAGTA ATTTCTCTAT TCTACGACCA GAAAATACAG ATTGAGTATA	60
20	TGCATATAAG ATGTTTTTAA CATCATTTTT GGATGATAGG ATGTTGCACC ACGATGATGT	120
	CTGAATTCAT CGAATTCCTA TCAGGTATCG TTTCAACAAT TTCATTAACA TATCGCGAAA	180
	TATCATTTTG AGAATTCTAA CGARTTTCCT ATTGGTAGTG TAAGTTGGGG TCATGTTATA	240
25	ATTITIATAC ATAAGGCACC TCTTTAATTT AGTTTAGTAG TATTTATTAA ATTATACGAG	300
•	GGACCCAACA CAGAAAATTC ATTTTATTGA ATTTTACATT TATGTGmCAA GTTGGGAAAA	360
	ATGTCTTATT TTTTCAAAGT ATTTAAAAGT AAAATTACAT GTTAATACGT	410
30	(2) INFORMATION FOR SEQ ID NO: 3693:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3693:	
	ACTICATATA ATTITATGAAA TAAACCIGIC AATTITGGAT IGATTATGCI IIGIGATICI	60
	TTTTATTTCT GCGTAATAAC GCTAAACCTA AAATGCTAAA TAATCCGCCG AACAACATGC	120
45	CGTTGTTTGT TGATTCTTCT CCACCTGTTT CAGTAGTTCA GATTTCTTAG ATTGTGCTTT	180
	TTTAGTTGGT ACCACTGCTT TAACCTTTTC ATTGATTTCA ATAACAGGTG TTACTACTTT	240
	ACCTTGTTCC ACTGGTTTAG AAGGTTTTTT AGGTTCTTCT TTAGCAGGTG GTATTGGTTT	300
50	ACCAGGTTCA GTTGGTACCT CTGGCGTTGG CGGTGTTGGT GTTTCCGGCT CGCTTGGTAC	360
	TTCTGGTGTC GGTGGTGTTG GGTGTTTnCC GGCTTCGCTT GGTACTTCTG GGTGTTCGGT	420
55		

(2) INFORMATION FOR SEQ ID NO: 3694:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3694:	
	GCATCGTTGC CTTGGTAAGC CGTTACCTTA CCAACTAGCT AATGCAGCGG GAGTCCATCT	6
15	ATAAGTGACA GCAAGACCGT CTTTCACTTT TGAACCATGC GGTTCAAATn ATTATCCGGT	120
	ATTAGCTACG GTTTCCCGAA GTTATCCCAG TCTTATAGGT AGGTTATCCA CGTGTTACTC	180
	ACCOGTCCGC CGCTAACATC AGAGAAGCAA GCTTCTCGTC CCGTTCGCTC GACTTGCATG	240
20	TATTAGGCAC GCCGCCAGGT TCCATCCTGA GCCAGGATCA AACTCTCCAT AAAAATTATG	300
	ATGTTTGATT AGCTCATAAA TACTAAATAA TGTTTGTAAC TTATAGTTAC GTTTTTTGGG	360
	AATTAACGTT GGACATATTG TCATTCCAGT TTTCAATGTT	400
25	(2) INFORMATION FOR SEQ ID NO: 3695:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3695:	
••	ACCTAATATA TAGACAGGTT CATCACTTAA TGACTTTGCA AGTTCGGCAA TGTCCTGTGC	60
	GTCGCGTTTG ACACGATAAT CACTGTCAGG GTTTGAAGCG GAATCAGGGA GTGGTTCAGT	120
40	TAACTCGCTT TCTCCATAAT CACGACGATC AACGGCTACA ACAGTAAAAT GGTCTTTTAA	180
	CTGTTCTGCA AGAGGCAGAA AAATGTCTCC GGTACCGTTT GCACCAGGAA TAAAGATGAG	240
	CACGGGTCCT TGTCCGACTT GGTGGTATCG TAATTTAGCG CCTTGTAATT CTAAAGTTTC	300
45	CATATTCAAT GACCTCCATT TGTTAATTGT TAGGTGATAA ACCTAATAAT TTAGCACCAT	360
	TTGGTATAAC TTAATTTCnC CTTTTCCTTC ATCnGGTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3696:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3696:	
5	TTCTTTCTCT TCCTCCGGGT ACTAAGATGT TTCAGTTCTC CGGGTGTGCC TTCTGATATG	60
•	CTATGTATTC ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT	120
	CTCTGGATCA AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA	180
10	TOGGOTTOTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAC	240
	CATTITIATA AGTCAAACGC TCACATACGG CTTCGTTTTC ATTATTTTAA ATGCTCATTT	300
	ACATAAGTAA ACTCTGCTTT AAAATAATTT AACTCATTGT CTGCTAAACG TTTTCTTTTA	360
15	TAAAAAGATT TAAACGCGTT GATTAAnCTG TGAGTGTTCT	400
	(2) INFORMATION FOR SEQ ID NO: 3697:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3697:	
	CACTTTARCC AAAAAATATT TGAATGTTAA ATAAACATTC AAAACTGAAT ACAATATGTC	60
30	ACGITATICC GCATCITCIG AAGAAGAIGI TCCGAATATA TCCTTAGAAA GGAGGIGAIC	120
	CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCACC	180
	TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTGG	240
35	TGTGACGGGC GGTGTGTACA AGACCCGGGA ACGTATTCAC CGTAGCATGC TGATCTACGA	300
	TTACTANCGA TTCCANCTTC ATGTAGTCGA GTTGCAGACT ACAATCCGAA CTGAGAACAA	360
	CTTTATGGGA TTTGCTTGAC CTCGCGGTTT CGCTnCCCTT	400
10	(2) INFORMATION FOR SEQ ID NO: 3698:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3698:	
	ANGGENATE ANTTOTT CTCTTCCTCC GGGTACTARG ATGTTTCAGT TCTCCGGGTG	5.0

	CCCCATTCGG AAATCTCTGG ATCAAAGCTT ACTTACAGCT CCCCAAAGCA TATCGTCGTT	180
	AGTAACGTCC TTCATCGGCT TCTAGTGCCA AGGCATCCAC CGTGCGCCCT TAATAACTTA	240
5	ATCTATGTTT CCATCCTACA GGAAACGCGT TATTAATCTT GTGAGTGTTC TTTCGAACAC	300
	TAGCGATTAT TTCTTATGAA TTCAAGCTTA TTTAAAACTC TTTATTCACT CGGTTGTGCT	360
10	TGGNAAAATC TATATTTTAC TTACTTATCT AGGTTTCAAT	400
70	(2) INFORMATION FOR SEQ ID NO: 3699:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3699:	
	TTTATGGCAT ACACGCATCA TAATACAGCC CAACACCACT AATGGTGCAG TTGCAAATCC	60
	ARATTCTTCC GCTCCAAGCG CACATGCGTA CGCTACATCT TTACCAGTTA ATAACTTACC	120
25	GTCTGTTTCT AACTTAACAC GACTTCTTAA GTCATTTAGT TTTAATGTTT GATGTGTTTC	180
	TGCTAAACCA ATCTCCCAAG GAACACCGGC ATGCTGAATA CTCGTTTTGG GTGAAGCCCC	240
	TGTANCACCA TCGTAACCAC TGATGACAAT TTTATCTGCA AATGCTTTTG CCACCCCAGA	300
30	TGCAATGGTA CCAACACCTG TTTTCGAAAC TAATTTTACC GCGATATCTG CATCTTTATT	360
	CGCATTTTTC AAATCATGTA TCAGTTGCGC TAAATCTTCT	400
35	(2) INFORMATION FOR SEQ ID NO: 3700:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3700:	
45	CGACGTACCA TCGACGCTAA GGAGCTTAAC TTTCGTGTGT TCGGCATGGG AACAGGTGTG	60
	ACCTCCTTTG CTATAGTCAC CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG	120
50	TAAGTAAAAG THATTTTGCT TCGCAAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG	180
	TATTCGTCAG CTCCACATGT CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT	240
	TGAGGGATCT TATAACCGAA GTTGGGAAAT CTCATCTCnC GGGGGGCTTC ATGCTTAGAT	300

400

GGTACACCAG AGGTATGTCC ATCCCGGTCC TCTCGTACTA

	(2) INFORMATION FOR SEQ ID NO: 3701:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPB: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3701:	
15	AACCAAGCCC AATAATGGAC TGGCCGCCTA ATAATAAAAG CTCTAAAAGT TGTATTTTAA	60
,,	AAATAGTTCT TTAAATTATA TACCCACCAC ATTTGGTGGA GAACCTAAAA AAAAGCACTT	120
	CCCAAAAATG GAAAGTGCAA GTAGTGAGCC ATAGAGGATT CGAACCTCTG ACCCTCTGAT	180
20	TAAAAGTCAG ATGCTCTACC AACTGAGCTA ATGGCTCTAA TGGCTGGGCT AGCTGGATTC	240
	GAACCAACGA GTGACGGAGT CAAAGTCCGT TGCCTTACCG CTTGGCTATA GCCCAATATA	300
	TAGATGGTGG AGGGGGCAG ATTCGAACTG CCGAACCCGA AGAGCGGnTT TACAGTCCGC	360
25	CGCGTTTAGC CANTTCGNTA CCCCTCCAGN TTATTCATAT	400
	(2) INFORMATION FOR SEQ ID NO: 3702:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3702:	
	TTTAAGTCCT GTGCGTCTGC CAGTTCCGCC ACCCCGGCAC TATAAAAATG GAGCAGAAGA	60
40	CGGGATTCGA ACCCGCGACC CCAACCTTGG CAAGGTTGTT ATTCTACCGC TGAACTACTT	120
	CTGCATATGC GGGTGAAGGG AGTCGAACCC CCACGCCGTA AGGTTAGATC CTAAGTCTAG	180
	TGCGTCTGCC AATTCCGCCA CACCCGCAAA TGGTGAGCCA TAGAGGATTC GAACCTCTGG	240
45	ACCCTCTGGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGGCTCT TCCATGGTGC	300
-	CGGCCAGAGG ACTTGGAACC CCCAACCTAC TGGATTACAA GTCAGTTGGC TCTACCAATT	360
	GANGCTAAGG CCGGCAATAT GTTAAGNATN AATGGTGGAG	400
50	(2) INFORMATION FOR SEQ ID NO: 3703:	
	(i) SEQUENCE CHARACTERISTICS:	

2650

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3703:	
	CAACTAATAA ATAGTGGCGG TGGAGGGGAT CGAACCCCCG ACCTCACGGG TATGAACCGT	60
10	ACGCTCTAGC CAGCTGAGCT ACACCGCCTT ATATAGTTTG TAAATAATAT GGTGGAKACT	120
	AGCGGGATCG AACCGCTGAC CTCCTGCGTG CAAAGCAGGC GCTCTCCCAG CTGAGCTAAG	180
	CCCCCATAAT AATTACAGTA TATCGGGAAG ACAGGATTCG AACCTGCGAC CCCTTGGTCC	240
15	CAAACCAAGT GCTCTACCAA GCTGAGCTAC TTCCCGTATA ATTAACGCGC CCGATAGGAG	300
	TCGAACCCAT AAACCTCTTG ATCCGTAGTC AAACGCTCTA TCCAATTGAG CTAACGGGCG	360
	CATATGTTTT TAATTGAAAT GGTGCCCGAG GACCGGAATG	400
20	(2) INFORMATION FOR SEQ ID NO: 3704:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3704:	
	CTAACGCCTA CGCGTTACAT GAAAAACGGA GAACAAGCAG AACAATTATT ACGTCAGCTT	60
	ATAGAAAAG ATGAAGCACT AGCTAAGTAT GTCATGGTTT GTGATGAAAC AGCTTGGTGG	120
35	TCATATATGG GTCAAGATAA TGATATTTTC AAAGATCAAT TAGGTCATCT AACTGTTCAG	180
	CTAAGAAAGT ATCCCGAAGT GCTAGCCAAA AATGATACGC AACAGCTAGT GTCAATGGCA	240
	GCACTCGCGG CAAATGATCG CACTTTATAT CAAATGATTT GTGGAAAAGA TAATATTTCT	300
40	AAAAATGATG TCATGACGTT ATTTGAAGAT ATCGCGCAAG TCTTTTTAAA GGTAACACTA	360
	TCATTTATGC AATACGGCGC ATTACCCAGA GTTGCATGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3705:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 478 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		

2651

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3705:

	TGACGGGGAC CCGCACAAGC GGTGGAGCAT GTGGTTTAAT TCGAAGCAAC GCGAAGAACC	120
	TTACCAAATC TTGACATCCT TTGACAACTC TAGAGATAGA GCTTTCCCCT TCGGGGGTAC	180
5	AAAGTGACAG GTGGTGCATG GTTGTCGTCA GCTCGTGTCG TGAGATGTTG GGTTAAGTCC	240
	CGCAACGAGC GCAACCCTTA AGCTTAGTTG CCATCATTAA GTTGGGCACT CTAAGTTGAC	300
10	TGCCGGTGAC AAACCGGAGG AAGGTGGGGA TGACGTCAAA TCATCATGCC CCTTATGATT	360
	TGGGGCTACA CACGTGCTAC AATGGACAAT ACAAAGGGCA GCGAAACCGT GAGTCAAGCA	420
	AATCCCATAA AGTTGTTCTC AGTTCGGATT GTAGTCTGCA ACTCGACTAC ATGAAGCT	478
15	(2) INFORMATION FOR SEQ ID NO: 3706:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3706:	
25	ATCTTAAGTC TTTGGTGAAC CGTTTTGTAG AATTAAATAA TATTACAGAG CCGCTAGCAG	60
	TAACGATCCA AACGAATTTA CCACCATCAC GTGGATTAGG ATCGAGTGCA GCTGTCGCGA	120
30	TTGCTTTTGT TCGTGCAAGT TATGATTTTT TAGGGAAATC ATTAACGAAA GAAGAACTCA	180
	TTGAAAAGGC TAATTGGGCA GAGCAAATTG CACATGGTAA ACCAAGTGGT ATTGATACGC	240
	AAACGATTGT ATCAGGCAAA CCAGTTTGGT TCCAAAAAGG TCATGCTGAA ACGTTGAAAn	300
35	CTCAAAGTTT AGACGGCTAT ATGGTTGTTA TAGANACTGG TGTGAAAGGT TCACCAAGAC	360
	AAGCAGTAGA AGATGTTCCA TAAACTTTGG TGAGGACCCT	400
40	(2) INFORMATION FOR SEQ ID NO: 3707: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3707:	
50	GTCGAACTGC CGACACATGG AGCTTCAATC CATTGCTCTA CCAACTGAGC TACTGAACCA	60
	TAATAAAAT GTAATnnTGG CGGTCTCGAC GGGAATCGAA CCCGCGATCT CCTGCGTGAC	120
55	AGGCAGGCGT GTTAACCGCT ACACTACGAG ACCTATAAAA TATTGCGGGA GGCGGATTTG	180

	TOPEGRAGIA MENGGATTU GAACCCCCGC GGCCCGTTAA GGCCCTGTCG	30
	GTTTCAAGA CCGATCCCTT CAGCCGGACT TGGGTATTCC TCCATTATTA TAGGTAAATC	36
5	GCTATTAATT ATAAAATTAA ATGGCGGTCT CGACGGGAAT	40
	(2) INFORMATION FOR SEQ ID NO: 3708:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3708:	
	GTTCGCCCAT TAAAGCGGTA CCANGCTGGG TTCAGAACGT CGTGAGCANG TTCGGTCCCT	60
20	ATCHGGGGTG GGCGTAGGAA ATTTGAGAGG AGCTGTCCTT AGTACGAGAG GACCGGGATG	120
	GACATACCTC TGGTGTACCA GTTGTCGTGC CAACGGCATA GCTGGGTAGC TATGTGTGGA	180
25	CGGGATAAGT GCTGAAACAT CTAAGCATGA AGCCCCCCTC AAGATGAGAT TTCCCAACTT	240
	CGGTTATAAG ATCCCTCAAA GATGATGAGG TTAATAGGTT CGAGGTGGAA GCATGGTGAC	300
	ATGTGGAGCT GACGAATACT AATCGATCGA AGACTTAATC AAAATAAATG TTTTGCGAAC	360
30	AAAATCCACT TTTACTTACT ATCTAGTTTT GAATGTATAA	400
	(2) INFORMATION FOR SEQ ID NO: 3709:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 424 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3709:	
	AATTITATGG GCCCTTTATG GACTITATAT TMCCTAAAAT ACTATTAAGA AGTCCTGAAA	60
45	AATTCACATT AGCAGTTGGA TTGTTCAACT TTATTAATGA TAAGTATGCA AATAATTTCA	120
45	CAGTGTTTGC AGCAGGGGCA ATTATGATTG CAGTACCTAT AGCAATCGTA TTCTTGTTCT	180
	TGCAACGCTA TTTAGTATCA GGTTTAACAA CAGGTGCGAC AAAAGGTTAG TTTGAAATTr	240
50	GGAGTGGGC AGAATTGATA AAGAACCACT AATGACGATA AAGATTAAAA GGAGGACGTT	300
	ATGATGACGA TTAAAGTTGG AATCATTGGG TGTGGTGGTA TTGCGAATGG CAAGCACATG	360
	CCAAGTTTAC AAAAAGTTGA AAATGTTGAA ATGATCGCAT TTGTGACGTG GACTTTCGAA	420
55		

(2) INFORMATION FOR SEQ ID NO: 3710:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 559 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3710:	
٠	AGTGCTCTAC CAAGCTGAGC TACTTCCCGT ATAATTAACG CGCCCGATAG GAGTCGAACC	60
15	CATAACCTCT TGATCCGTAG TCAAACGCTC TATCCAATTG AGCTACGGGC GCATATGTTT	120
	TTATTGAAAA TGGTGCCGAG GACCGGAATC GAACCGGTAC GTGATCACTC ACCGCAGGAT	180
-	TTTAAGTCCT GTGCGTCTGC CAGTTCCGCC ACCCCGGCAC TATAAAAATG GAGCAGAAGA	240
20	CGGGATTCGA ACCCGCGACC CCAACCTTGG CAAGGTTGTa TTCTACCGCT GAACTACTTC	300
	TGCATATGCG GGTGAAGGGA GTCGAACCCC CACGCCGTAA GCTKAGATCC TGAAGTCTAG	360
25	TGCGTCTGCC AATTCCGCCA CACCCGCAAA TGGTGAGCCA TAGAGGATTC GAACCTCTGG	420
	ACCCTCTGGA TTGAAAAGTn CAGATGCTCT GACCAACTGG AGCTAATGGC TCTTCCCATG	480
	GTGGCCGGCC AGAAGGACTT GGAACCCCCA ACCTGATGGA TTTACAATTC AGTTGGCTCT	540
30	AACCAATTTG AGCTAAGGC	559
	(2) INFORMATION FOR SEQ ID NO: 3711:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3711:	
	AACCTTTTAG GAGCTAGCCG TCGAAGGTGG GACAAATGAT TGGGGTGAAG TCGTAACAAG	60
45	GTAGCCGTAT CGGAAGGTGC GGCTGGATCA CCTCCTTTCT AAGGATATAT TCGGAACATC	120
	TTCTTCAGAA GATGCGGAAT AACGTGACAT ATTGTATTCA GTTTTGAATG TTTGTTCATT	180
	CAAATTAATG GGCCTATAGC TCAGCTGGTT AGAGCGCACG CCTGATAAGC GTGAGGTCGG	240
60	TGGTTCGAGT CCACTTAGGC CCACCATTAA TITAATACCT ATTTGGGGGC TTAGCTCAGC	300
	TGGGAGAGCG CCTGCTTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTA GTCTCCACCA	360
55	TTATTTGTAC ATTTGAAAAC TAGATAAGTA AGTAAAATAT	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3712:	
	TAGAATGAAC CGGCGAGTTA CGATTTGATG CAAGGTTAAG CAGTAAATGT GGAGCCGTAG	60
	CGAnnTCATG TCTGAATAGG GCGTTTAGTA TTTGGTCGTA GCCTGAAACC nnGTGATCTA	120
15	CCCTTGGTCA GGTTGAAGTT CAGGTAACAC TGAATGGAGG ACCGAACCGA	180
	AAAGTGAGCG GATGAACTGA GGGTAGCGGA GAAATTCCAA TCGAACCTGG AAATAGCTGG	240
	TTCTCTCCGA AATAGCTTTA GGGCTAGCCT CAAGTGATGG ATTATTGGAG GTAGAGCACT	300
20	GTTTGGACGA GGGGCCCCTC TCGGGTTACC GAATTCAGAC AAACTCCGAA TGCCAATTTA	360
	ATTTAACTTG GGGAGTCAGA ACATTGGGTG ATAAGGTCCG	400
25	(2) INFORMATION FOR SEQ ID NO: 3713:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3713:	
3 5	TTTTTAAGTC TGATGTGAAA GCCCACGGCT CAACCGTGAA GGGTCATTGG AAACTGGAAA	60
	ACTTGAGTGC AGAAGAGGAA AGTGGAATTC CATGTGTAGC GGTGAAATGC GCAGAGATAT	120
	GGAGGAACAC CAGTGGCGAA GGCGACTTTC TGGTCTGTAA CTGACGCTGA TGTGCGAAAC	180
40	GTGGGGATCA NACAGGATTA GATACCCGGT AGTCCACGCC GTAAACGATG AGTGCTAAAG	240
	TGTTAGGGGG TTTCCGCCCC TTAGTGCTGC AGTAAACGCA TTNAAGCACT CCGnCTGGGG	300
45	AGTACGNCCG CAAGTTGGAA ACTTCAAAGG AATTGACGGG GGACCCGCAC AAGCGTTGGG	360
	AGCATGTGGT TTAATTTCGA AGCAACGGAG AGGAACCTGA	400
	(2) INFORMATION FOR SEQ ID NO: 3714:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i>		

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3714:	
5	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC	60
8	TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAACGTAAnT CGACTACCAT	120
	CGACGCTAAG GAGCTTAACT TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT	180
10	AGTCACCAGA CATATGAATG TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT	240
	TTTGCTTCGC AAAACATTTA TTTTGATTAA GTCTTCGATC GATTAGTATT CGTCAGCTCC	300
	CALGTCACCA TGCTTCCACC TCGAACCTAT TAACCTCATC ATCTTTGAGG GATCTTATAA	360
15	CCGAAGTTGG GAAATCTCAT CTTGAGGGGG GCTTCATGTC TTAGCATTTC AGTCACTTAT	420
	GCCCG	425
	(2) INFORMATION FOR SEQ ID NO: 3715:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3715:	
	GTCCCTGCTG TTCCTATCAT ATAAATGATA GATTCAAATA GATTTGTAGG TTTGTCATGC	60
30	CCAGTTACAA GTTGCGTTAT CGTAGACACT AACATTAATA TGACTGGTAA TGTTGCTGTT	120
	AATAAACTCA TACCAAATCC TGGCATCTCT TGATCCGTAA ATTCTTTTTG TGCACCTAAC	180
35	GCTGAAATAT CGCCTTCTCG TGTATACGCA GACGGAATCA TTTTTTGTGC ACTITGTTAA	240
	ATATAGGCCC TGCAATGAGT GTACTGGAAT GGCAATAATC ATACCATACA GTAATACATC	300
	TCCAACATTT GCCTTTAATT CTTTTGCGAG ACTACCGGTC CTGGGATGTG GTGGTAAAAA	360
40	GCCATGTGTC ACTGATAAAG CTGTTACCAT ANGTAGTCCT	400
	(2) INFORMATION FOR SEQ ID NO: 3716:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3716:	•
	TTATGAATTC AAGCTTATTT AAAACTCTTT ATTCACTCGG TTTTGCTTGG TAAAATCTAT	60
55		

	GCAATATCAC TTTAACCAAA AAATATTTGA ATGTTAAATA AACATTCAAA ACTGAATACA	180
5	ATATGTCACA TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA	240
8	GGTGATCCAG CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG	300
	TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC GGnTTCGGGT GTTACAAACT	360
10	GTTCGTGGTG TGACGGGGCG GTGTGTTACA AGACCCGGGA	400
	(2) INFORMATION FOR SEQ ID NO: 3717:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3717:	
•	AAAGGACGAC ATTAGACGAA TCATCTGGAA AGATAATTCA AAGAAGGTAA TAATCCTGTA	60
25	GTCGAAAATG TTGTCTCTCT TGAGTGGATC CTGGTACGAC GGAGCACGTG AAATTCCGTC	120
	GGAATCTGGG AGGACCATCT CCTAAGGCTA AATACTCTCT AGTGACCGAT AGTGAACCAG	180
	TACCGTGAGG AAAGGTGAAA AGCACCCCGG AAnGAGTTGA AATAGAACCT GAAACCGTGT	240
30	GCTTACAAGT AGTCAGAGCC CGTTAATGGG TGATGGCGTG CCTTTTGTAG AATGAACCGG	300
	CGAGTTACGA TTTGATGCAA GGTTAAGCAG TAAATGTGGA GCCGTAGCAN AANNTGTTCT	360
	GAATAGGGCG TTTAGTATTT TGGTCGTAGC CCGAGAACCA	400
35	(2) INFORMATION FOR SEQ ID NO: 3718:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3718:	
	TAATTCATCT GCAGCATCTG GTTGATTTAA GCTTTCACGT AAACACATCG CTAAAGATAG	60
	AATCATTCCA AATGGATTGG CAACGTTTTT ACCTGCAATA TCTGGTGCTG ATCCATGAAT	120
50	AGGCTCATAC AATCTTGGAC CATCGTTACT AAAACTAGCA GAAGGTGATA AACCAAGTGA	180
	ACCAGGAATC ACTGAAGCTT CATCACTTAA AATATCGCCA AATAAGTTTT CACATACGAT	240
	GACGTCAAAT TGTTTTGGNA TTTGTGATTA AATGCATACT ACAAGCATCA ACAAATAAGT	300
55	•	

	TTTACTAGAA GCTAATACAT TTCCTTATCA ACGGATGTNA	400
	(2) INFORMATION FOR SEQ ID NO: 3719:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3719:	
15	ATTTAAAACT GCCTGGCAAC GTTCTACTCT AGCGGAANTA AGTNGAGCTA CCATCGACGC	60
	TAAGGAGCTT AACTTCTGTG TTCGGCATGG GAACAGGTGT GACCTCCTTG CTATAGTCAC	120
	CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG TAAGTAAAAG TGATTTTGCT	180
20	TCGCAAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG TATTCGTCAG CTCCACATGT	240
	CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT TGAGGGATCT TATAACCGAA	300
45	GTTGGGAAAT CTCATCTTGA GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA CTTATCCCGT	360
25	CCACACATAG CTACCCAGCT AGCCGTTGGC ACGACAAnGG	400
	(2) INFORMATION FOR SEQ ID NO: 3720:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3720:	
	CGTTACACCT TCCAATAAAT TTGCTGTTGC TGGATAAGGA GAAATATTGA TATATTGTCT	60
40	TAAATTACTA TAATGCCAAT TTAAGTCTGG ATGATTTGTT AAGACACCAA TAGGATTATC	120
	TTTTATAACC ACTTCACCCT CTTTAAATGA AACTTCGACT GTATGTCCAG TTGCATCGGA	180
45	AACATGATAA TGCAATGGCG GAACTTCACC GATGTCATTT AAATATACAG CTACAACATG	240
	TATTTGGGAT GCTTGTTGTT TCATATCTTC AATGCTTGTT GTATATCCCA AAATCCATGT	300
	CACAATTICA TITTGCGTAA TATTCATCGC GTCCGCTTTG TGTGTTGGAT CCATATGGAA	360
50	CTATAACCTC GGGAAATATT GTGGTTGAAA TGGGCACGCC	400
	(2) INFORMATION FOR SEQ ID NO: 3721:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

	·	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3721:	
	AGTCAGTTTA TAGCGATTGC TGGACTGACA GTACTTGTGC CATTATTGCC AATTTATATG	60
10	GCATCACTAC AAAATCTATC AGTCGTAGAA ATACAGTTGT NGAGTGGTAT AGCGATTGCT	120
	GCTCCAGCTG TAACGACGAT GATAGCTTCG CCGATATGGG GGAAGCTAGG TGATAAGATC	180
	AGCCGAAAAT GGATGGTGTT AAGAGCGTTA CTTGGTTTGG CGGTATGCTT ATTTTTAATG	240
15	GCATTGTGTA CGACACCATT ACAGTTTGTA CTTGTGGAGG TTATTGCAGG GACTATTTGG	300
	TGGTGTTGTT GATGCATCAA GTGCGTTTGC GAGTGCAGAA GGCGCCACTG ANAGATCGTG	360
	GGAAAGGTAT TAGGAAGACT GCAAATTnCA GTTCAGCGCA	400
20	(2) INFORMATION FOR SEQ ID NO: 3722:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3722:	
	TCTAAAAGTT GAACTACTCC CGCATAAACC TGGAGGCGGC AACCGGATTT GAACCGGTGA	60
	TAAAGGTTTT GCAGACCTCT GCCTTACCAC TTGGCTATGC CGCCAATAAC TGGGCTAGCT	120
35	GGATTCGAAC CAACGAGTGA CGGATAAAGT CCGTTGCCTT ACCGCTTGGC TATAGCCCAT	180
	TAATAATAAG GGCGGCTGAA GGGGATCGAA CCCTCGAATG TCGGAACCAC AATCCGATGT	240
	GTTAACCACT TCACCACAGC CGCCATGGCA GGGGCAGTAG GAATCGAACC CACACCAAAG	300
40	GTTTTGGAGA CCTCTATTCT ACCNTTGAAC TATGCCCCTA TTAAAATGAT AAATGGAGGG	360
	GGGCAGATTC GAACTGCCGA ACCCGAGGGG CGGATTTTAC	400
45	(2) INFORMATION FOR SEQ ID NO: 3723:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3723:

	GGTTCAAGTC CTCTGGCCGG CACCATTTnT GGAGGGGTAG CGAATGGCTA AACGCGGCGG	120
5	ACTGTAAATC CGCTCCTTCG GGTTCGGCAG TTCGAATCTG CCCCCCTCCA TTTATTATTT	180
•	TTAATAGGGG CATAGTTCAA CGGTAGAATA GAGGTCTCCA AAACCTTTGG TGTGGGTTCG	240
	ATTCCTACTG CCCCTGCCAT GGCGGCTGTG GTGAAGTGGT TAACACATCG GATTGTGGTT	300
10	CCGACATTCG AGGGTTCGAT CCCCTTCAGC CGCCTTATTA TTAATGGGCT ATAGCCAAGC	360
	GGTAAGGCAA CGGACTTTGA CTCCGTCACT CGTTGGTTCG	400
	(2) INFORMATION FOR SEQ ID NO: 3724:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3724:	
	CACTITAGCA AATGGTGACA AAGTCCGTAT TGCTACAATT TTTGACTTAA TGGCAAGTCA	60
25	ATATGGCGTG CGTCGTTTTG ATCATAAATT AGAATCAAAA GGATACGACG ATGCAGAATC	120
	AAAATATACA CCTGCTTGGC AAGAAGCCAT TTCAGGCGTA AAACAAAGTG TTnGTCATTC	180
30	AAGTAGCGAA AGAATTTGCG CAAAACGCTA TCGATACTGA AGGGCGTTCA ATGATTATCA	240
	TGGGTGCGGG TATTAACCAT TGGTTTAACT CAGATACGAT TTATCGTTCC AATCTTAAAC	300
	TTAGTTATGT TATGTGGCTG TCAGGTGTGA ATGGTGGCGG TTGGGGGCTCA CTATGTGGGG	360
35	ACAAGAAAA TGTCGTCCGA TTGAAGGATG GAGTACTGTC	400
	(2) INFORMATION FOR SEQ ID NO: 3725:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 476 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3725:	
	CGCTATCTGA ATCTGAATCG CTATCTGAAT CTGAGTCGTT GTCTGAGTCC GAATCGCTAT	60
50	CTGAATCTGA GTCGCTATCT GAGTCTGAGT CGCTATCTGA ATCTGAGTCG CTGTCTGAAT	120
	CTGAATCACT GTCTGAGTCT GAGTCGCTGT CTGAGTCTGA ATCGCTGTCA GAATCTGAGT	180
55	CGCTATCTGA GTCTGAATCT GAATCACTGT CTGAGTCCGA ATCGCTATCT GAATCTGAAT	240
<i>55</i>		

	commercial distribution control and the control of	300
_	CTGAGTCGCT GTckGAATgC GCTGTCTGAA TCTGAGTCGC TATGCTGAAT GCTGAGTnCG	420
5	CTATGTGAGT CTGAATGCGC TGTGCAGAAT CTGAGTGCGC TCATCTGATG TTTCTT	476
	(2) INFORMATION FOR SEQ ID NO: 3726:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3726:	
	ATACGACCAC TGTTTAATGC GTCCATTAAA TCTGGCCAAT TATTGAATTT AACTAATTCT	60
20	AGTTTATATT TCGGATGATT GTATTGTGAT AATAATTTTT TAGTCATCAT CAAATTAGCT	120
	GAATGTGTAA TCGGCAAATA TCCAATTTTA ATCACTTGCT GATTTTGGGC ATTTTTAGAC	180
25	CGTTCTTTAG ACGTCCTTTG CCAATCACAT CCTGTAATTA TAAAGATTCC AATGATGACG	240
20	ATTATGCTTA ACCTTTTCAT CGTCACTCAC TCCTTATAAA TAATATTCAG GTTCAACTTG	300
	ATGATGATTC AATGCAAnGT TTCCATAATT TCATTACGAA TCTTAAGTAG GTGGCTATCA	360
30	TTACGGACTG CGTGGATGTG ANGCTGTAAA TTCCATAnTG	400
	(2) INFORMATION FOR SEQ ID NO: 3727:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3727:	
	ACGACGGATA GGGACCGAAC TGTCTCACGA CGTTCTGAAC CCAGCTCGCG TACCGCTTTA	. 60
45	ATGGGCGAAC AGCAAACCCT TGGGACCGAC TACAGCCCCA GGATGCGATG AGCCGACATC	120
	GAGGTGCCAA ACCTCCCCGT CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG	180
	GGTAGCTTTT ATCCGTTGAG CGATGGCCCT TCCATGCGGA ACCACCGGAT CACTAAGTCC	240
50	GTCTTTCGAC CCTGCTCGAC TTGTAGGTCT CGCAGTCAAG CTCCCTTATG CCTTTACACT	300
	CTATGAATGA TTTCCAACCA TTCTGAGGGA ACTTTGAGCG CCTCCGTThC CTTTTAGGAG	360
	GCGAACGGCC CCAGTTCAAA CTGCCCGCCT GAACACTGTC	400
55		

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3728:	
,,	TTGAAAAGTC ATATCAAAGC GCACATGTTT TTAAGCGTCG TCGAACACCT ATCGTGAAAG	60
	GTGTGTCATT TGAGTGTCCA ATCGGTGCGA CGATTGCGAT TATCGGAGAA AGTGGTAGCG	120
15	GTAAATCGAC GTTGAGTCTA TTGATATTAG GTATTGAGAA ACCGGATAAA GGTTGTGTAA	180
	CCTTAAATGA TCAACCGATG CATAAGAAGA AAGTGAGACG TCATCAAATT GGTGCTGTAT	240
	TTCAAGATTA TACGTCATCA TTACATCCAT TTCAGACTGT TAGAGAAATC TTATTTGAAG	300
20	TGATGTGTCA ATGTGATGGA CAACCTAAAG AAGTTATGGA AGTCCAAGCA ATTACATTGT	360
	TGGAAGAAGT CGGTCTATCT AAGGCATACA TGGGATAAAT	400
25 30	(2) INFORMATION FOR SEQ ID NO: 3729: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3729: ATCGAACCCC CGACCTCACG GGTATGAACC GTACGCTCTA GCCAGCTGAG CTACACCGCC TTATATAGTT TGTAAATAAT ATGGTGGAGA CTAGCGGGAT CGAACCGCTG ACCTCCTGCG	60 120
	TGCAAANAGC CGCTCTCCCA GCTGAGCTAA GCCCCCATAA TAATTACAGT ATATCGGGAA	180
40	GACAGGITCG AACCIGCGAC CCCTTGGTCC CAAACCAAGT GCTCTACCAA GCTGAGCTAC	240
	TTCCCGTATA ATTAACGCGC CCGATAGGAG TCGAACCCAT AACCTCTTGA TCCGTAGTCA	300
	AACGCTCTAT CCAATTGAGC TACGGGCGCA TATGTTTTTA TTGAAAATGG TGCCGAGGAC	360
45	CGGAATCGAA CCNGTAGTGA ATCACTCACC GCAGATTTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3730:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3730:	
5	ATCTCTGGAT CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG TAACGTCCTT	60
	CATCGGCTTC TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT CTATGTTTCC	120
	ACCATTTTA TAAGTCAAAC GTTAACATGA AGTTACGTTC TTTTATAAAA AGATTTAAAC	180
10	GCGTTATTAA TCTTGTGAGT GTTCTTTCGA ACACTAGCGA TTATTTCTTA TGAATTCAAG	240
	CTTATTTAAA ACTCTTTATT CACTCGGTTT TGCTTGGTAA AATCTATATT TTACTTACTT	300
	ATCTAGTTTT CAATGTACAA ATAATGGTGG AGACTAGCGG GATCGAACCG CTGACCTCCT	360
15	GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC	400
	(2) INFORMATION FOR SEQ ID NO: 3731:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3731:	
	TGATTACAAG TCAGTTGCTC TACCAATTGA GCTAGGCCGG CAATATGTAA GAATAAATGG	60
30	TGGAGAATGA CGGGTTCGAA CCGCCGACCC TCTGCTTGTA AGGCAGATGC TCTCCCAGCT	120
	GAGCTAATTC TCCGATTTAA AACTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTC	180
	GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT	240
35	CCTTGCTATA GTCACCAGAC ATATGAATGT AATTTATACA TTCAAAACTA GATAGTAAGT	300
	AAAAGTGATT TTGCTTCGCA AAACATTTAT TTTGATTAAL GTCTTCGATC GATTAGTATT	360
40	CGTCAGCTCC ACATGTCACC ATGCTTCCAC CTCGAACCTA T	401
••	(2) INFORMATION FOR SEQ ID NO: 3732:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3732:	
	CATTATTAAC GGCTATGGTT TAACTGAAGC ACCTCTTGTA CTTGTTAATA CACCGGAAAA	60
<i>55</i>	TTCAAAACGT AAGCCAATGA GTATTGGTAA AGCAGTCATG TTCGTTGATG CACGTATCCT	120

	AAATGTCACG CCAGGATATT GGAATAAACC AGCAGAGACT GCCAAAGCAT TTCATGGTCG	240
	ATATTTATTA ACTGGTGACT TAGCGAGATG GACAACGATG GCGATATATT TATTATTGAC	300
5	CGCAAAAAAG AATTAATCAT AACTGGTGGC GAAAATGTCT TACCATCCGA gTCGAAAtGC	360
	TTaCtGaGCA TCCACTAGTA GACCGGTGTG TGGTCGT	397
10	(2) INFORMATION FOR SEQ ID NO: 3733:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3733:	
20	AAGTAACAAT CGTTCACCGT CGTGATGAGT TACGTGCACA GCGTATTTTA CAAGATAGAG	60
	CATTCAAAAA TGATAAAATC GACTTTATTT GGAGTCATAC TTIGAAATCA ATTAATGAAA	120
:	AAGACGGCAA AGTGGGTTCT GTGACATTAA CGTCTACAAA AGATGGTTCA GAAGAAACAC	180
25	ACGAGGCTGA TGGTGTATTC ATCTATATTG GTATGAAACC ATTAACAGCG CCATTTAAAG	240
	ACTTAGGTAT TACAAATGAT GTTGGTTATA TTGTAACAAA AGATGATATG ACAACATCAG	300
30	TACCAGGTAT TTTTGCAGCA GGnGATGTTC GCGACAAAGG TTACGCCAAA TTGTCACTGC	360
30	CACGGCGATG GTAGTATGCC AGCGCAAGTG CCACGGAATG	400
	(2) INFORMATION FOR SEQ ID NO: 3734:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 480 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3734:	
	GCCGTTTACT GTGGCTTCGA TTCGTAGCTT CGCAGAAGCT AACCACTCCT CTTAACCTTC	60
45	CAGCACCGGG CAGGCGTCAG CCCTATACAT CACCTTACGG TTTAGCAGAG ACCTGTGTTT	120
	TTGATAAACA GTCGCTTGGG CCTATTCACT GCGGCTCTTC TGGGCGTTAA CCCTAAAGAG	180
50	CACCCCTTCT CCCGAAGTTA CGGGGTCATT TTGCCGAGTT CCTTAACGAG AGTTCGCTCG	240
	CTCACCTTAG AATTCTCATC TTGACTACCT GTGTCGGTTT GCGGTACGGG CACCTATTTT	300
	CTATCTAGAG GCTTTTCTCG GCAGTGTGAA ATCAACGACT CGAAGACACA ATGTCTTCTC	360

TAGACGTGCA ATCCAATCGG CAACGCTTCG CCTAATCCTA ACTGGCGGTC CCCCCCCAT 480

	(2) INFORMATION FOR SEQ ID NO: 3735:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3735:	
15	CGATCCCTTC AGCCGGACTT GGGTATTCCT CCAAAATTAT ATGGACCTTG CAGACTCGAA	60
	CCTGCGACCG AACGGTTATG AGCCGTTAGC TCTAACCAAC TGAGCTAAAG GTCCTAAATA	120
	TAATTTTACA ACTAATAAAT AGTGGCGGTG GAGGGGATCG AACCCCCGAC CTCACGGGTA	180
20	TGAACCGTAC GCTCTAGCCA GCTGAGCTAC ACCGCCTTAT ATAGTTTGTA AATAATATGG	240
	TGGAGACTAG CGGGATCGAA CCGCTGGACC TCCTGCGTGC AAACAGnCGC TCTCCCAGCT	300
	GAGCTHAAGC CCCCATAATA ATTACAGTAT ATCGGGAAGA CAGGATTCGA ACCTGCGACC	360
25	CCTTGGTCCC CAAACCAAGT GGTTTNACCA AGTTGAGCTA	400
	(2) INFORMATION FOR SEQ ID NO: 3736:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3736:	
	TGAGCCCGAC GAGCTACCGA ACTGCTCCAT CCCGCGATAA TAAAAAATAA TGGCGGAGGA	60
40	AGAGGGATTC GAACCCCCGC GGCCCGTTAA GGCCCTGTCG GTTTTCAAGA CCGATCCCTT	120
	CAGCCGGACT TGGGTATTCC TCCATTATTA TAGGTAAATC GCTATTAATT ATAAAATTAA	180
	ATGGCGGTCT CGACGGGAAT CGAACCCGCG ATCTCCTGCG TGACAGGCAG GCGTGTTAAC	240
45	CGCTACACTA CGAGACCATT AGTAAAACGG AGGAAGAGGG ATTCGAACCC CCGCGAGCCG	300
	TTAAGCCCCT GTCGGTTTTC AAGACCGATT CCTTCAGCCG GACTTGGGTA nTCnTCCAAA	360
	ATTATATGGA CCTTGCAGGA CTCGAACTGC GAnCGAACGG	400
50	(2) INFORMATION FOR SEQ ID NO: 3737:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3737:	
	TAATAATTAC AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC	60
10	AAGTGCTCTA CCAAGCTGAG CTACTTCCCG TATAATTAAC GCGCCCGATA GGAGTCGAAC	120
	CCATAACCTC TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTT	180
	TTTATTGAAA ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGATCACT CACCGCAGGA	240
15	TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAT GGAGCAGAAG	300
	ACGGGATTCG AACCCGCGAC CCCAACCTTG GCAAGGTTGT ATTCTACCGC TGAACTACTT	360
	CTGCATATGC GGGTGAAGGG AGTCGAACCC CCACGCCGTA	400
20	(2) INFORMATION FOR SEQ ID NO: 3738:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3738:	
	AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG CAGATGCTCT CCCAGCTGAG	60
	CTAATTCTCC GATTTAAAAC TGCCTGGCAA CGTTCTACTC TAGCGGAAGT AATCGGANCT	120
35	ACCATCGACG CTAAGGAGCT TAACTTCTGT GTTCGGCATG GGAACAGGTG TGACCTCCTT	180
	GCTATAGTCA CCAGACATAT GAATGTAATT TATACATTCA AAACTAGATA GTAAGTAAAA	240
40	GTGATTTTGC TTCGCAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG TATTCGTCAG	300
	CTCCACATGT CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT TGAGGGATCT	360
	TATAACCGAA GTTGGGAAAT CTCATCTTGG AGGGGGGCTT	400
45 50	(2) INFORMATION FOR SEQ ID NO: 3739: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3739:

	CACCACCCGA CATATTITCC ACTTCCGAAC TTAATTGATA ATGTCCCAAA CCGACATCTT	120
	TAATTAATTG CTnTGCACGT TTTCTATCAA ATTTATCATT ACGTGCAAGT GATGGGAATA	180
5	TCATGTTATC TTCAATCGTT TCACCAAACA AGTCACTTTG CTGCATCAAA TAACTGATTC	240
	GTTGACGCAA TTCTTCCGGG TCATAATCAT TATAGGGTTT ACCTTTAAAA TAAAGTTCTC	300
	CACTAGTTGG ACTAAACAAA TTACATATMT GCTTTTGAAA TGTACTTTTA CCACTACCTG	360
	ATGGACCTAT AATGGCAATA CTCTCGCCTT TATCTACTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3740:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 413 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3740:	
	ATCGCTTGCT TCTTTCCTCT CCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG	60
?5	TTGCGCTCTT TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTCT	120
	TTGTGTTTAC TTTTTATTTT GACGTTTTAG ACATAAAAA AAGAGACCTT GCGGTCTCAA	180
30	TGCGGCTCAT CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ANTAATTGGC	240
	TACCATCGAC GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTTCT	300
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	360
35	AGATECAAAC GTTTTCACTT CGCCAAGCCA ETTTTCETTG TGTTTGCTTT TNA	413
	(2) INFORMATION FOR SEQ ID NO: 3741:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3741:	
	CTTAGATGCT TTCAGCACTT ATCCCGTCCA CACATAGCTA CCCAGCTATG CCGTTGGCAC	60
	GACAACTGGT ACACCAGAGG TATGTCCATC CCGGTCCTCT CGTACTAAGG ACAGCTCCTC	120
50	TCAAATTTCC TACGCCCACG ACGGATAGGG ACCGAACTGT CTCACGACGT TCTGAACCCA	180
	GCTCGCGTAC CGCTTTAATG GGCGAACAGC CCAACCCTTG GGACCGACTA CAGCCCCAGG	240

	TAAGCTGTTA TCCCCGGGGT AGCTTTTATC CGTTGAGCGA TGGCCCTTCC ATGCGGAACC	360
	ACCGGATCAN TAAGTCCGTC TNTCGACCCT GNTGGACTTG	400
δ	(2) INFORMATION FOR SEQ ID NO: 3742:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3742:	
	GTTTTGAATG TATAAATTAC ATTCATATGT CTGGTGACTA TAGCAAGGAG GTCACACCTG	60
	TTCCCATGCC GAACACAGAA GTTAAGCTCC TTAGCGTCGA TGGTAGTCGA ACTTACGTTC	120
20	CGCTAGAGTA GAACGTTGCC AGGCAGTTTT AAATCGGAGA ATTAGCTCAG CTGGGGAGAG	180
	CATCTGCCTT ACAAGCAGAG GGTCGGCGGT TCGAACCCGT CATTCTCCAC CATTTATTCT	240
	TACATATIGC CGGCCTAGCT CAATTGGTAG AGCAACTGGA CTTGTAATCA GTAGGTTGGG	300
25 .	GGTTCAAGTC CTCTGGCCGG CACCATGGGA AGAGCCATTA GCTCAGTTGG TAGAGCATCT	360
	GACTTTTAAA TCAGAGGTTT CAGAGGTTTC GAATCCGCTA	400
30	(2) INFORMATION FOR SEQ ID NO: 3743: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3743:	
40	TCGCAATAAC CGCATCAAAT GTATTGCCTA AAAAGGCTGG ATTTTCCAAT GTGTCATCAT	60
	TACGGATCTC GAAGTTCTCA TAACGCACAT CATGTAATAA CATATTCATG CGTGCTAAGT	120
	TGTATGTAGT ATTGTTACGT TCTTGTCCGA AATAACGATA CACTTGCGTT TCTTTACCAA	180
45	CACGTAACAA CAATGAACCG GAACCACATG TTGGGTCGTA CACGTGACGT AATTTATCTT	240
	TACCGTCTGT GACAATCTTC GCCAGTATCT TAGATACTTG TTGTGGTGTA TAGAACTCGC	300
	CTGCTTTTT ACCCGCTGTC GCCGCAAAGC GCCCGATTAG GAATTCATAT GCATCACCTA	360
50	ACATATCAAT TTCCATGGTC ACTGTGAACG AATGGGTAAG	400
	(2) INFORMATION FOR SEQ ID NO: 3744:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3744:	
10 .	CTACTGATTA CAAGTCAGTT GCTCTACCAA TTGAGCTAGG CCGGCAATAT GTAAGAATAA	60
	ATGGTGGAGA ATGACGGGTT CGAACCGCCG ACCCTCTGCT TGTAAGGCAG ATGCTCTCCC	120
	AGCTGAGCTA ATTCTCCGAT TTAAAACTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA	180
15	GTTCGACTAC CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG AACAGGTGTG	240
	ACCTCCTTGC TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA ACTAGATAGT	300
	AAGTAAAAGT GATTTGCTTC GCAAAACATT ATTTGATTAA GTCCTCGATC GATAGTATCG	360
20	TCAGCTCCAC ATGTCACCAT GCTTCCAnCT CGnACCTATT	400
	(2) INFORMATION FOR SEQ ID NO: 3745:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3745:	
	CATAAGTAAA CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTTAT	60
35	AAAAAGATTT AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACACTA GCGATTATTT	120
	CTTATGAATT CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA	180
	TATTTTACTT ACTTATCTAG TTTTCAATGT ACAATTTCTT TTTAGTCAAG CGCTCGCATA	240
40	CTGCTTTATT nTCAAAAAAT CAAATGCTCA TTTACAAAAG TAAACTCCGC TTTAATTTTC	300
	TTAATGCATT GTCTAACAAC CGCTTGCTTT AAAAAGAATA GATTGNCAAG CGCTCGCATA	360
45	AGCAATATCA CTTMAACCAA AAAATA	386
•••	(2) INFORMATION FOR SEQ ID NO: 3746:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 677 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	\cdot	
	AAGGTGAAAA GCACCCGGA AGGATGTTGA AATAGAACCT GAAACCGTGT GCTTACAAGT	60
	AGTCAGAGCC CGTTAATGGG TGATGGCGTG CCTTTTGTAG AATGAACCGG CGAGTTACGA	120
5	TTTGATGCAA GGTTAAGCAG TAAATGTGGA GCCGTAGCAK AACANGGTCT GAATAGGGCG	180
	TTTAGTATTT GGTCGTACCG ANAACCAGGT GATCTACCCT TGGTCAGGTT GAAGTTCAGG	240
10	TAACACTGAA TGGAGGACCG AACCGACTTA CGTTGAAAAG TGAGCGGATG AACTGAGGGT	300
	AGCGGAGAAA TTCCAATCGA ACCTGGAGAT AGCTGGTTCT CTCCGAAATA GCTTTAGGGC	360
	TAGCCTCAAG TGATGATTAT TGGAGGTAGA GCACTGTTTG GaCGAgGGGC CCCTCTCGGG	420
15	tTACCAATTC AGACAAACTC CGAATGCCAA TTAATTTAAC TTGGGGAGTC aGAACATGGG	480
	TGATAAGGTC CGTGTTCGAA AGGGAAACAG CCCAGACCAC CAGCTAAGGT CCCAAAATAT	540
	ATGTTAAGTG GAAAAGGATG TGGCGTTGCC AGACAACTGA GGATGTTGGC TTAGAAGCAG	600
20	CCATCATTTT AAAGAGTGCG TAATAGCTCA CTAGTCGAAG TGACACTGCG CCGAAAATGT	660
	GACCGGGCNT AAACNAT	677
<i>25</i> ·	(2) INFORMATION FOR SEQ ID NO: 3747:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 417 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3747:	
35	GTCCAATGAT TCATATGCTT TATTATCACG GTATTGCCTT TGAATCGCAT GCACAAAATA	60
	TGATGCTCAT TCATGAAAAT GGTTGGCCTA CACGTATTGC CTTAAAAGAT TTCCATGATG	120
40	GTGTTCGTTT TAAGCGTGAC ATITAAGTGA AGCTGCTTCA CACCTGACAT TAAAGCCAAT	180

GCCAGAAGCA CATAAAAAAG TGAATAGTAA TTCATTTATT GAAACAGATG ACGAACGTTT 240 AGTACGCGAC TTTTTACATG ATGCATTTTT CTTTATTAAT ATCGCCGAAA TCATCTTATT 300 TATTGAAAAG CAATATGGTA TCGATGAGGA GCTGCAATGG CAATGGGKTA AAGGCATCAT 360 CGAGGCGTAT CCAGragcat TTCCaGAGTT kGAATaACTA TCCAACCATT CGGTTTT 417

(2) INFORMATION FOR SEQ ID NO: 3748:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double (D) TOPOLOGY: linear

55

45

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3748:	
	ATGCTCTCCC AGCTGAGCTA ATTCTCCGAT TTAAAACTGC CTGGCAACGT TCTACTCTAG	60
5	CGGAACGTAA GTTCGACTAC CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG	120
	AACAGGTGTG ACCTCCTTGC TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA	180
	ACTAGATAGT AAGTAAAAGT GATTTTGCTT CGCAAAACAT TTATTTTGAT TAAGTCTTCG	240
10	ATCGATTAGT ATTCGTCAGC TCCACATGTC ACCATGCTTC CACCTCGAAC CTATTAACCT	300
	CATCATCTTT GAGGGATCTT ATAACCGAAG TTGGGAAATC TCATCTTGAG GGGGGCTTCA	360
15	TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3749:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3749:	٠
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	60
30	AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC	120
	GTTTTAGGCA TAAAAAAAA AGACCTTGCG GTCTCAATGC GGCTCATCGC ATCCATTTTT	180
	TGCCTGGCAA CGTTCTACTC TAGCGGAAGT AAGTTGGGCT ACCATCGTCG CTAAAGACCT	240
35	TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCCTT CGGCTCTCGC TTACTCATTT	300
	AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC	360
	GCCAAGCCAT TTTTTCTTTG TGTnTACTTT TTAATTTTGA	400
40	(2) INFORMATION FOR SEQ ID NO: 3750:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>60</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3750:	
	ATAAAAAAA GAGACCTTGC GGTCTCAAAT GCGGCTCATC GCATCCATTT TTTGCCTGGC	60
	AACGTTCTAC TCTAGCGGAA CGTAAGTTGG CTACCATCGT CGCTAAAGAC CTTTCTTGAC	120
55		

	TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT TCGCCAAGCC	240
	ATTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAAA GAGACCTTGC	300
5	GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGGC AACGTTCTAC TCTAGCGGAA	360
	nTAAnTTGGG CTACCATCGA CGCTAAGAAC CTTTCTTGGA	400
10	(2) INFORMATION FOR SEQ ID NO: 3751:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3751:	
20	CACTCACCGC AGATNTTTAA GTCCTGTGCG TCTGCCAGTT CCGCCACCCC GGCACTATAA	60
	AAATGGAGCA GAAGACGGGA TTCGAACCCG CGACCCCAAC CTTGGCAAGG TTGTATTCTA	120
25	CCGCTGAACT ACTTCTGCAT ATGCGGGTGA AGGGAGTCGA ACCCCCACGC CGTAAGCTNA	180
	GNATTCCTAA GTCTAGTGCG TCTGCCAATT CCGCCACACC CGCAAATGGT GAGCCATAGA	240
	GGATTCGAAC CTCTGGACCC TCTGATTAAA AGTCAGATGC TCTACCAACT GGAGCTAATG	300
30	GCTCTTTCCA TGGTGCCCGG CCAGAGGACT TGGAACCCCC AACCTACTGA TTACAAGTCA	360
	GTTGCTCTAA CCAATTGAGC TAAGCCGGGC AATATGTTAn	400
	(2) INFORMATION FOR SEQ ID NO: 3752:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3752:	
45	TTANANANCC GCGACATTAT AGAGCCAATC ACTAGCCTAT CTCAGAATCA CCAACGAATC	60
	CTTCATTATT AAGGAATCTA GGCATCTTTA CGGCGTGGTT CTAATCGCAT CTTTTTCAAT	120
	CTAAGTGCGT TTGTGACAAC ACTTACTGAA CTTAGTGCCA TTGCAGCACC AGCAACCCAT	180
60	GGCGCAAGTA AGCCCAATGC AGCTATAGGG ATACCGGCAA TATTATAGCC GAATGCCCAA	240
	AATAGATTTT GACGAATATT ACGAATGGTT GCTTTACTTG CATAAATGGC TTTAGGAATA	300
55	AGCATCAAGT CGCCACCAAG AATAGTAATA TCAGCTGCTT CAATGGGCAA CTTCTGTTAC	360

(2) INFORMATION FOR SEQ ID NO: 3753:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3753:	
	CCTTGCGGTC TCAATGGCGG CTCATCGCAT CCATTTTTTG CCTGGCAACG TTCTACTCTA	60
15	GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT	120
	TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC	180
	TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT TTCTTTGTGT	240
20	TTACTTTTTA TTTTGACGTT TTAGACATAA AAAAAAGAGA CCTTGCGGTC TCAATGCGGC	300
	TCATCGCATC CATTITTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA GTGGCTACCA	360
	TCGACGCTAA GAACCTTTCT TGACTGGTGA CAAnCGCTTG	400
25	(2) INFORMATION FOR SEQ ID NO: 3754:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3754:	
	CTGAGCTAAG CCCCCAAATA GGTATTAAAT TAATGGTGGG CCTAAGTGGA CTCGAACCAC	60
	CGACCTCACG CTTATCAGGC GTGCGCTCTA ACCAGCTGAG CTATAGGCCC ATTAATTTGA	120
40	ATGANCAAAC ATTCAAAACT GAATACAATA TGTCACGTTA TTCCGCATCT TCTGAAGAAG	180
	ATGTTCCGAA TATATCCTTA GAAAGGANGT GATCCAGCCG CACCTTCCGA TACGGCTACC	240
45	TTGTTACGAC TTCACCCCAA TCATTTGTCC CACCTTCGAC GGCTAGCTCC TAAAAGGTTA	300
~~	CTCCACCGGC TTCGGGTGTT ACAAACTCTC GTGGTGTGAC GGGCGGTGTG TACAAAACCC	360
	GGGAACGTAT TCACCGTAGC A	381
50	(2) INFORMATION FOR SEQ ID NO: 3755:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3755:	
5	AGCTCCCCAA AGCATATCGT CGTTAGTAAC GTCCTTCATC GGCTTCTAGT GCCAAGGCAT	60
	CCCCGTGCGC CCTTAATAAC TTAATCTATG TTTCCACCAT TTTTATAAGT CAAACGTTAA	120
	CATGAAGTTA CGTTCTTTTA TAAAAAGATT TAAACGCGTT ATTAATCTTG TGAGTGTTCT	180
10	TTCGAACATA GGCGATTATT TCTTATGAAT TCAAGCTTAT TTAAAACTCT TTATTCACTC	240
	GGTTTTGCTT GGTAAAAACN ATATTTTACT TACTTATCTA GTTTTCAATG TACAATTTCT	300
	TTTTAGTCAA GCGCTCGCAT ACTGCTTTAT TTTCCATAAG CAATAnCACT TTAACCAAAA	360
15	AATATTTGGA ATGTTMAAAT AAACATMCAA AACTGAATAC	400
	(2) INFORMATION FOR SEQ ID NO: 3756:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3756:	
	CTACTCACAC CGGCATTCTC ACTTCTAAGC GCTCCACATG TCCTTACGAT CATGCTTCAA	60
30	CGCCCTTAGA ACGCTCTCCT ACCATTGTCC AAAGGCATGC GCACAGCTTC GGTAATATGT	120
	TTAGCCCCGG TACATTTTCG GCGCATGTCA CTCGACTAGT GAGCTATTAC GCACTCTTTA	180
35	AATGGATGGC TGCTTCTAAG CCAACATCCT AGTTGTCTGG GCAACGCCAC ATCCTTTTCC	240
	ACTTAACATA TATTTTGGGA CCTTAGCTGG TGGTCTGGGC TGTTTCCGGn GGGGnACACG	300
	GACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG ATTTGTCTGA	360
40	ATCGGTAACC CGAGAGGCC CnTCGTCCAA ACAGTGCTCT	400
	(2) INFORMATION FOR SEQ ID NO: 3757:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 458 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3757:	
	GGCAGATGCT CTCCCAGCTG AGCTAATTCT CCGATTTAAA ACTGCCTGGC AACGTTCTAC	60

	ATGGGAACAG GTGTGACCTC CTTGCTATAG TCACCAGACA TATGAATGTA ATTTATACAT	180
	TCAAAACTAG ATAGTAAGTA AAAGTGATTT TGCTTCGCAA AACATTTATT TTGATTAAGT	240
5	CTTCGATCGA TTAGTATTCG TCAGCTCCAC ATGTCACCAT GCTTCCACCT CGAACCTATT	300
	AACCTCATCA TCTTTGAGGG ATCTTATAAC CGAAYTLLGG GAALCTCATC TTGAGGGGGG	360
	GCTCATGCTT AGATGCTTCA GCACTTATCC CGTCCACACA TAGCTANCCA GCTATGCCGT	420
10	THECACGACA ACTESTACAC CAGANGTATE TCCATCCC	458
	(2) INFORMATION FOR SEQ ID NO: 3758:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3758:	
	AGCGCTCGCA TACTGCTTTA TTTTCAAAAA ATCAAATGCT CATTTACAAA AGTAAACTCC	60
25	GCTTTAATTT TTCTTAATGC ATTGTCTAAC AACCGCTTTC TTTAAAAAGA ATAGATTGTC	120
	AAGCGCTCGC ATAAGCAATA TCACTTTAAC CAAAAAATAT TTGAATGTTA AATAAACATT	180
30	CAAAACTGAA TACAATATGT CACGTTATTC CGCATCTTCT GAAGAAGATG TTCCGAATAT	240
	ATCCTTAGAA AGGAGGTGAT CCAGCCGCAC CTTCCGATAC GGCTACCTTG TTACGACTTC	300
	ACCCCAATCA TTTGTCCCAC CTTCGACGGC TAGCTCCTAA AAGGTTACTC CACCGGCTTC	360
35	GGGTGTTACA AACTCTCGTG GTGTGACGGG CGGTGTGTAC	400
	(2) INFORMATION FOR SEQ ID NO: 3759:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3759:	
	GACTTGGGTA TTCCTCCAAA ATTATATGGA CCTTGCAGGA CTCGAACCTG CGACCGAACG	60
50	GTTATGAGCC GTTAGCTCTA ACCAACTGAG CTAAAGGTCC TAAATATAAT TTTACAACTA	120
	ATAAATAGTG GCGGTGGAGG GGATCGAACC CCCGACCTCA CGGGTATGAA CCGTACGCTC	180
	TAGCCAGCTG AGCTACACCG CCTTATATAG TTTGTAAATA ATATGGTGGA GACTAGCGGG	240
55		

	TAATAATTAC AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC	360
	AAGTGCTCTA CCAAGCTGAA GCTACTTTCC CGTATAATTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3760:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3760:	
	CACTTAATGC CCGTACCACA CATAGCTACC CAGCTATGCC GTTGGCACGA CAACTGGTAC	60
	ACCAGAGGTA TGTCCATCCC GGTCCTCTCG TACTAAGGAC AGCTCCTCTC AAATTTCCTA	120
20	CGCCCACGAC GGATAGGGAC CGAACTGTCT CACGACGTTC TGAACCCAGC TCGCGTACCG	180
	CTTTAATGGG CGAACAGCAA nCCCTTGGGA CCGACTACAG CCCCAGGATG CGATGAGCCG	240
	ACATCGAGGT GCCAAACCTC CCCGTCGATG TGAACTCTTG GGGGAGATAA GCCTGTTATC	300
25	CCCGGGGTAG CTTTTATHCG TTGAGCGATG GHCCTTHCAT GCGGAACACC GGATCACTAA	360
	GTCCGTCTTT CGACCCTGCT CGACTTGTAG GTCTCGCAGT	400
30	(2) INFORMATION FOR SEQ ID NO: 3761: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 623 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with appropriate percent percent, SEO ID NO. 2761.	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3761: TATGTATTT ATAATGTACA GCTCGTTGAN TCNTATTTTT CCTTATATTA AGTGCCATTA	60
40	ATACAAAACC TAGCTCTCGT TTAACTTTAT TTATTCCTCG AACTGACATT CGAGTGAACC	` 120
	CAAAATAGCC TTCATAAATC CAAAAACAGG CTCTACATCA ATTTTTCTTT GACTATAGAT	180
45	TTTTTCGTT TCTGGTTCAG AAAGCTTTTG ATTAATTTGG ACTTTAAAGT ATTCCCAATT	240
	ATAATTCTTC ATGATTTTCT TATTGGATTT CGAATTTGGT TTCATGCATT GATGTCTCAA	300
	AGAACATGAT GAACAGTCAT CACATTCATA TAGTTTGAAG TCTCGTTTAA AACCATATCT	360
<i>50</i>	ATCATTACGG TATGCATATC TTTTAAAACC TATTCTTTTG TTATTAGGAC ATATAAATTC	420
	ATCATTAAGT TCGTCATATT TCCAATTTTA AGTGTTGAAA ATGTCACTTT TAAACTTTCT	480
££	ALGERMAN TOTAL TOT	
<i>55</i>	•	

	AATAGCCATA TAGTTTTGCT CACTACCATA ACCGGCATCA GCTACAAATA TACTCCGGTA	600
	AATAACCGAG GGATTGTTGG AAT	623
5	(2) INFORMATION FOR SEQ ID NO: 3762:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 718 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3762:	
	ATTITAAAAA TAGTTCTTTA AATTATATAC CCACCACATT TGGTGGAGAA CCTAAAAAAA	60
	AGCACTTCCC AAAAATGGAA AGTGCAAGTA GTGAGCCATA GAGGATTCGA ACCTCTGACC	120
20	CTCTGATTAA AAGTCAGATG CTCTACCAAC TGAGCTAATG GCTCTAATGG CTGGGCCTAG	180
	CTGGATTCGA ACCAACGAGT GACGGAGTCA AAGTCCGTTG CCTTACCGCT TGGCTATAGC	240
	CCAATATATA GATGGTGGAG GGGGGCAGAT TCGAACTGCC GAACCCGAAG GAGCGGATTT	300
25	ACAGTCCGCC GCGTTTAGCC ACTTCGCTAC CCCTCCAGCT TATTCATATA ATTTAATAAT	360
	CHARACTEGIG GAGAATGACG GCTTCGAACC GCCGACCCTC TGCTTGTAAG GCAGATGCTC	420
30	TCCCAGCTGA GCTAATTCTC CAAAATAATG ACTCCTACGG GACTCGAACC CGTGTTACCG	480
	CCGTGAAAGG GCGGTGTCTT AACCGCTTGA CCAAGGAGCC ATGGCTCCAC AGGTAGGACT	540
	CGAACCTTAC GACCGATCGG TITAACAGCC GATAGCTCTT ACCACTGGAG CTACTGTGGG	600
35	ATTAATATTA TGCCTGGGCA ACGTTCTTAC TCTTAGCGGA ACGTTAAGTT CCGACTTACC	660
	ATCCGACGCT AAGGAGCTTT AACTTTCTnG TGGTTCCGGC ATGGGGGGAA CAGGTGGT	718
	(2) INFORMATION FOR SEQ ID NO: 3763:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	, , , , , , , , , , , , , , , , , , , 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3763:	
50	THEACTERCE GERGATTITT ARGTECTGTG CGTCTGCCAG TTCCGCCACC CCGGCACTAT	60
	AAAAATGGAG CAGAAGACGG GATTCGAACC CGCGACCCCA ACCTTGGCAA GGTTGTATTC	120
	TACCGCTGAA CTACTTCTGC ATATGCGGGT GAAGGGAGTC GAACCCCCAC GCCGTAAGCT	180
65		

	AGGATTCGAA CCTCTGGACC CTCTGATTAA AAGTCAGATG CTCTACCAAC TGGAGCTAAT	30
	GGCTCTTCCA TGGTGCCGGC CAGAGGACTT GGAACCCCCA ACCTACTGGA TTTACAAGTT	36
5	CAATTGCTCT AnCAATTTGA GCTAAGGCCG GGCAATATGT	40
	(2) INFORMATION FOR SEQ ID NO: 3764:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 610 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xí) SEQUENCE DESCRIPTION: SEQ ID NO: 3764:	
	TTAAAGTATT CCCAATTATA ATTCTTCATG ATTTTCTTAT TGGATTTCGA ATTTGGTTTC	60
20	ATGCATTGAT GTCTCAAAGA ACATGATGAA CAGTCATCAC ATTCATATAG TTTGAAGTCT	120
•	CGTTTAAAAC CATATCTATC ATTACGGTAT GCATATCTTT TAAAACCTAT TCTTTTGTTA	180
	TTAGGACATA TAAATTCATT ATTAAGTTCG TCATATTTCC AATTTTGAGT GTTGAAAATG	240
25	CCACTTTTAA ACTTTCTAGT TTTATCTTTA ATAAACATGC CATACGTAAT AAGTGGCGTT	300
	TTATTAAAAT CATCTATAAT AGCCATATAG TTTTGCTCAC TACCATAACC TGCATCAGCT	360
	ACAATATACT CTGGTAAATA ACCGAAGGAT TTTGAATCAT TGTTAAAAAT GGGATTAATG	420
30	TTCTAGTATC TGTTGGGTTT TGAAATAGGT CATAGGATAA AACAAATTGT GAATTTGTCG	480
	CTATTTGGTA AATTGGTATC CTGGCTTAAG TTGGGCCATT TTTCCATATG GGCCTTCCTT	540
35	CCATTCTCCA TAAAAGTTGG CATCATGGAT CCAGATCCnG TTTTAGGAAA ACCTAATTCC	600
	AACCTTTAAG	610
	(2) INFORMATION FOR SEQ ID NO: 3765:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3765:	
50	CTTCTTGGTG CTGCATATCC CCTACAATAA TTAAACCTTT TTTCTTATTT AAAATGTGTC	60
	TTAATGCCGA TGCATCTATA CTTTTTTGAT AGTGCGGTAA AATCTTCATC TCAGANGTTA	120
	ACAATTCTGT TGCATTCAAA TCAGGTGTTA ACGGATCTCT AAATGGCAAG TTAAAATGAA	180

	CACAATGGTC TCTTTACTAT CATCCGCAAT AGGCATATCG AACTCATARC TTACATAATT	300
	ATTAAACATA TTTACTTGAT TAATCGCTTG TGGTGCGCCT ACAnTTCTTA ATTCAGCGGA	360
5	CGGTCACTTG TTAAAACGGT TTAAGGTATT CTACTAATTn	400
	(2) INFORMATION FOR SEQ ID NO: 3766:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 451 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3766:	
	CHTTTAACCT TTTTAAGGAA TCCTGCTAAT GCGGGTTTTG GCATTTTCGA HTHTTTTGTA	60
20	tCTCACGCAA tCTTGGTGGT CATTCAGTTC GTATATGGCA TCCATTAAGA CGCGAAGATC	120
	AAATGGACTA TTGATGACTT CTGGAATACC ACGATCTATA TTTAGTAATT GATAAACAGC	180
	TTCCATGGCA GTACGAACCG AATATTCTGT TGTAAATACA GTGTCTCGCT CTGTTTCTGC	240
25	AAAGTTACCA ATAAATGCTA AGTTCTGAGA TTGATGCGGG ACGACTAAAG GTCTGTCGCC	300
	GATAGCACGC GTCATGAAAT AAGATGTGAT ATATGGCATA TAAACAGGGA ATCGTATTAG	360
30	ATGCATGTHT TGCTAAGTCT TCAATTTTGG TCAGTTGATA CACCTAAGTG GATACAGCCA	420
	TTCTTGGCAT ATTTCATTAC CACTACATnC T	451
	(2) INFORMATION FOR SEQ ID NO: 3767:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3767:	
	ACACGTGAAC GTCTTCAAAT GGAAGTACGT GACGTTCACT ACTCTCACTA TGGCCGTATG	60
45	TGTCCAATTG AAACACCTGA GGGACCAAAC ATTGGATTGA TTAACTCATT ATCAAGTTAT	120
	GCACGTGTAA ATGAATTCGG CTTTATTGAA ACACCATATC GTAAAGTTGA TTTAGATACA	180
50	CATGCTATCA CTGATCAAAT TGACTATTTA ACAGCTGACG AAGAAGATAG CTATGTTGTA	240
	GCACAAGCAA ACTCTAAATT AGATGAAAAT GGTCGTTTCA TGGATGATGA AGTTGTATGT	300
	CGTTTCCGTG GTAACAATAC AGTTATGGCT AAAGAAAAAA TGGATTATAT GGATGTATCG	360

(2) INFORMATION FOR SEQ ID NO: 3768:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3768:	
	CCTACGACCG ATCGGTTAAC AGCCGATAGC TCTACCACTG AGCTACTGTG GATTAATATT	60
15	ATGCCTGGCA ACGTTCTACT CTAGCGGAAn TAAGTTCGTA CTACCATCGA CGCTAAGGAG	120
	CTTAACTTCT GTGTTCGGCA TGGGAACAGG TGTGACCTCC TTGCTATAGT CACCAGACAT	180
	ATGAATGTAA TTTATACATT CAAAACTAGA TAGTAAGTAA AAGTGATTTT GCTTCGCAAA	240
20	ACATTATTT TGATTAAGTC TTCGATCGAT TAGTATTCGT CnGCTCCACA TGTCACCATG	300
	CTTCCACCTC GAACCTATTA ACCTCATCAT CTTTGAGGGA TCTTATAACC GAAGTTGGGG	360
	AAATCTCATC CTGnAGGGGG CTTCATGCTT AGATGCTTTC	400
25	(2) INFORMATION FOR SEQ ID NO: 3769:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	· · · · · · · · · · · · · · · · · · ·	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3769:	
	CTTGACCGAA GTTCTTACCT ACATCACCTA AATTAATGAC ATGTCCACCA GTCATATACT	60
	CTAATCCATG GTCGCCGATA CCTTCAACGA CAACATCTAC ACCACTATTT CTAATACAGA	120
40	ATCTTTCTnC TGCACTACCG TTAATAAATG CCTTACCACT TGTCGCACCA TAGAATGAGA	180
	CGTTACCAGC AATAATTTCA TTTTGTCGTT CTTCAAAAGG TGCTTTGACA ATGACCGTAC	240
	CACCAGATAA TCCTTTACCA ACATAGTCAT TCGCATCTCC AGTATGATGA ATCATTAAGC	300
45	CTTTCGGTGC ATATGCTGCA GGACTTTGGA CCAGCATGAC CATTCGTATA AACATTAATT	360
	GTATTTTCAG GGAGGTCCTG CTTCTCCATA TTGTTTCGGA	400
50	(2) INFORMATION FOR SEQ ID NO: 3770:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3770:	
6	CATTACGTAA TTAAAAGATA GTCATTAAGA GAGGNTGATA ACCATGCAAG AAGCATACAT	60
	TGTAGCTTAT GGGCGTTCAG CGCAGCGAAA CAAAGCAAGG CGCATTATTC CACGAAAGAC	120
	CTGATGATGT CGCAGCCAAA GTATTACAAG GCGTATTGAA ACGTATTGAC GGAAAATTCA	180
10	ATAAGAATAT GATTGAAGAT GTCATTGTTG GTACGGCTTT TCCAGAAGGA TTACAAGGCC	240
	AAAACATTGC ACGAACGATT GCATTGCGTG CGGGATTATC TGACACGGTA CCGGTCAAAC	300
15	AGTGGAATCG CTACTGCTCA TCCAGGNTTT ACAAACCATT CGCGATTGCA GGCCAATCAA	360
	ATTATGGCnG GTCCAAGGAG ATATACTTGT TAGCTGGTGG	400
	(2) INFORMATION FOR SEQ ID NO: 3771:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3771:	
	ACTCTCTTGC ANTAAGGGCA GGGAATGACC GATGGGATTA AAAGATCAAG CTGTTACCTG	60
30	GGGAAGGTAT TTTCATCAAT TTCCAGAACT ATCCGATAAA GAATTTAAGA CTACACAAAA	120
	AATTAAAGAT ATTTTAACAG AACATCATAT TAGAATATTA GACTTACCAC TTGCGACTGG	180
35	GCTTGTTGCT GAAGTGGGAC AAGGTCTGAG TTGTATAGCT GTTCGGGCTG ACATTGATGC	240
	TTTACCGATT CAAGAGCTTG TTGAACAGGA TTTTAAATCT GAAAATGAAG GTGTTATGCA	300
	TGCGTGTGGT CATGATATTC ACATGGCTAG NATTTTGGCT ACAGCTGGTA AAATTAAAAG	360
40	AGATTGAGGG CACTCTTACT GGGCGTGTTA AATCCATTTG	400
	(2) INFORMATION FOR SEQ ID NO: 3772:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3772:	
	TTTATTTTGA CGTTTTAGAC ATAAAAAAA GAGACCTTGC GGTCTCAATG CGGCTCATCG	60
55		

	GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTTCT TCGGCTCTCG	180
	CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC AGATTCAAAC	240
5	GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTGCTTT TTATTTTGAC GTTTTAGACA	300
	TAAAAAAAG AGACCTTGCG GTCTCAATGC GGCTCATCGC ATCCATTTT TGCCTGGGCA	360
	ACGTTCTACT CTAGCGGGAA CGGTAAGTTC GGACTTACCA	400
10	(2) INFORMATION FOR SEQ ID NO: 3773:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3773:	
	TTGATATTCC TGTACCACCT ATAATCGTTT TAATCGATGG GGGGACGCAT AGGNATAGGC .	60
	GACGTGCGAT TGGATTGCAC GTCTAAGCAG TAAGGCTGAG TATTAGGCAA ATCCGGTACT	120
25	CGTTAAGGCT GAGCTGTGAT GGGGAGAAGA CATTGTGTCT TCGAGTCGTT GATTTCACAC	180
	TGCCGAGAAA AGCCTCTAGA TAGAAAATAG GTGCCCGTAC CGCAAACCGA CACAGGTAGT	240
20	CAAGATGAGA ATTCTAAGGT GAGCGAGCGA ACTCTCGTTA AGGAACTCGG CAAAATGACC	300
30	CCGTAACTTC GGGAGAAGGG TGCTCTTTAA GGTTAACGCC CAGAAGAGCC GCATGGAATA	360
:	GGCCCAnCGA nGTTTATTCA AAAACACAGT CTCTGCTAAA	400
35	(2) INFORMATION FOR SEQ ID NO: 3774:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3774:	60
	TACTTAGACA ATCGAAAGTG TACATTATTA AATTATCATT TCCAGTTCTA CTCTAGCGGA	
	ACGTAAGTTG GCTACCATCC TCGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT	120
<i>50</i>	CTTTCCTCTC CTTCGGCTCT CACTTACTCA TTTAGCTCTA CTAAACTCGT TGCGTTCTTT	180
	TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC CATTTTTCTT TGTGTTTGCT	240
	TTTTATTTTG ACGTTTTAGA CATAAAAAA AGAGACCTTG CGGTCTCAAA TGCGGCTCAT	300

	GACGCTAAGG AGCTTAAACT TCTGTGTTTC GGCATGGGGA	400
	(2) INFORMATION FOR SEQ ID NO: 3775:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3775:	
15	CGGTTTATCA AGAATGGAAA GAGTTGTACG TGAAAGAATG TCAATTCAAG ATACTGAGTC	60
	TATCACACCT CAACAATTAA TTAATATTCG ACCTGTTATT GCATCTATTA AAGAATTCTT	120
	TGGTAGCTCT CAATTATCAC AATTCATGGA CCAAGCAAAC CCATTAGCTG AGTTAACGCA	180
20	TARACGTCGT CTATCAGCAT TAGGACCTGG TGGTTTAACA CGTGAACGGC TCAAATGGAA	240
	GTACGTGACG TTCACTACTC TCACTATGGC CGGTGTGTCC AATTGAAACA CCTGAGGGAC	300
	CAAACATTGG ATTGATTAAC TCATTATCAG TTATGCACGT GTAAATGGAA TTCGGCTTTA	360
25	TTGAAACACC ATATCGTAAA AGTTGATTTG GnTACACAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3776:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3776:	
	AGCTTACTTA CAGCTCCCCA AAGCATATCG TCGTTAGTAA CGTCCTTCAT CGGCTTCTAG	60
40	TGCCAAGGCA TCCACCGTGC GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA	120
	GTCARACGCT CACATACGGC TTCGTTTTCA TTATTTTARA TGCTCATTTA CATARGIARA	180
45	CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTTAT AAAAAGATTT	240
*~	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACNTAG GCGATTATTT CTTATGGAAT	300
	TCAAGCTTAT TTAAAACTCT TTATTCACTC GGTTTTGCCT GGGTAAAATC TAAATTTTAC	360
50	TTACHTATCT AGGTTTTCAA TGTACAAATA ATGGTGGGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3777:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
55		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3777:	
	AATTATAAAA TTAAATGGCG GTCTCGACGG GAATCGAACC CGCGATCTCC TGCGTGACAG	60
10	GCAGGCGTGT TAACCNCTAC ACTACGAGAC CATTAGTAAA ACGGAGGAAG AGGGATTCGA	120
	ACCCCCGCGA GCCGTTAAGC CCCTGTCGGT TTTCAAGACC GATCCCTTCA GCCGGACTTG	180
	GGTATTCCTC CAAAATTATA TGGACCTTGC AGGACTCGAA CCTGCGACCG AACGGTTATG	240
15	AGCCGTTAGC TCTAACCAAC TGAGCTAAAG GTCCTAAATA TAATTTTACA ACTAATAAAT	300
	AGTGGCGGTG GAGGGGATCG AACCCCCGAC CTCACGGGTA TGAACCGTAC GCTCTAGCCA	360
	GCTGAGCTAC ACCGCCTTAT ATAGTTTGTA AATAATATGG	400
20	(2) INFORMATION FOR SEQ ID NO: 3778:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3778:	
	CAAATCCTGC ACCATCAGAA AGTGGGGCAG ATGTTCCTGC AGTCATAGTG CCGTCAGCTT	60
	TAAATACTGT ACGTAATTTG GCTAATGCCT CCATCGTGGT GTCAGGGCGT ATAAATTCAT	120
35	CTTGGTCAAA GATATTTGTG TGTACTTTTG GTCCTGCGTT TGTATATTCA ACTGAGTTTA	180
	CTTGTATTGG AATAATTTCA TCTTTGAACC GACCATCACG TTGTGCGTCA TAGGCACGTT	240
	GATGACTTCT GACAGCATAA GCATCTTGAT CTTCGCGTGA TACGTCAAAT TGGGATGCTA	300
40	CATTTTECAG CAGTTAAACC CATAGGATAT GACGCACCTA TATCATCALA TTGTAAGGTT	360
	GGATTGTTTG TGGGCTTCGT TnGCCACCnn TTGGTACGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3779:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3779:	
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	CAATCTAAAT CGTTCAAATT TGGCACAACG ACAAATAAGG CTTCAACACG AATATATTCT	120
	CTCGGTTGAA ACCTTACTTA TTCATTTATT TTTTATAAAT TAGTGACATA ACACTGTATT	180
5	AGCATCTGCA CGATCGGTTG AAATATATGT TACATTTTCT TGCTGCTTAA TAAATGCATC	240
	ATAGTAATCA TATTGCGACG AATGATATGT GCCATTCGAT GTATCATTTG GGTTTAGCAA	300
10	ACAGCCATAA CCTTCGTCAT ATAAATGTTC ACAGGGCATA AGGGGCGTCA TGTTTTAGAA	360
70	CCACCTTACC TACATAAAAT ThGCCTCCAT AGGGATCATA	400
	(2) INFORMATION FOR SEQ ID NO: 3780:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3780:	
	ATGGCCGGTC TCGACGGGAA TCGCAACCCG CGATCTCCTG CGTGCACACC CAGGCGTGTT	60
25	AACCGCTACA CTACGAGACC ATTAGTAAAA CGGAGGAAGA GGGATTCGAA CCCCCGCGAG	120
	CCGTTAAGCC CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC	180
30	AAAATTATAT GGACCTTGCA GGACTCGAAC CTGCGACCGA ACGGTTATGA GCCGTTAGCT	240
	CTAACCAACT GAGCTAAAGG TCCTAAATAT AATTTTACAA CTAATAAATA GTGGCGGTGG	300
	AGGGGATCGA ACCCCCGACC TCACGGGTAT GAACCGTACG CTCTAGCCAG CTGAGCTACA	360
35	CCGCCTTATA TAGTTTGTAA ATAATATGGT GGAGACTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3781:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3781:	
	AACCACATCT TTATCAAGTT TCATATTCGG AATACCATAC ATTAATAAAC CGCCTGATTC	60
	TCTAGCACGT TCATAAATAG TTACTTGATA TCCTAGTAGA TTAAGTTCTT CAGCAGCAGC	120
50	TAATCCTGCT GGACCGCTTC CAACGATTGC CACTTTTTCA TCTCTACGGC GACTCGGAAC	180
	TITCGGCGCT ACCCAACCAT TITCAAAAGC TTCATCAATA ATTGTGCGTT CAATACCTTT	240

	TACACGCCCT GTAAAGTCAG GAAAGTTATT TGTTTCGCTT AAGCGTCATA AGCAGTTTTA	360
	AAATCTTGAT GATACACCAA GTCGTCCAnT CAGGATGGAG	400
5	(2) INFORMATION FOR SEQ ID NO: 3782:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3782:	
	ACATGATGCG TGTGGTATTG GTTTTTATGC GAATATGGAT AATAAAAGGT CTCACGACAT	60
	CATTGATAAA TCGCTTGAAA TGTTGCGACG CTTAGATCAC AGGGGCGGGG TCGGCGCAGA	120
20	TGGCATCACT GGTGATGGCG CAGGTATTAT GACTGAAATA CCTTTTGCAT TTTTCAAACA	180
	ACATGTAACG GACTTTGATA TCCCAGGTGA AGGTGAATAT GCCGTGGGGT TATTTTTTTC	240
	CAAAGAACGC ATTTTAGGTT CTGAACATGA AGTAGTTTTT AAAAAATATT TTGGAAGGCG	300
25	ANGGGTTATC AATTCTTGGT TAACGTAATG TACCAGTTAA TAAAAGATGC CATTGCCTAA	360
	ACCATGTAGC AGATACGATG GCCAGTCATT CCACCAAGTG	400
30	(2) INFORMATION FOR SEQ ID NO: 3783: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3783:	
40	AATCGGGTGA TGTTGGACGA TGATACGCAG GGAACGTTGC GTTATTCGTA TATGAAATAT	60
	TGGATAACTG TTTTAACAAT GATGGTAGAG ATATTTCATC ATTTGTAACA TCGTCAATTT	120
	TGATATTGTG ATGATTTAAC ATAACGACAT CATCGATATT GAATTGGTAT GAAAAACCTG	180
45	CTGTTGCTGA ATCTGTTAAT TTGGCTCCAA TATTTAAAAT TAAATCGCTG TTGTCCACAT	240
	AATCTCGTAT TTTATCTTCG GCAATTTTCC CATCGTAAAT ACCCATATAA TATGGATTTT	300
50	CCTCATTAAA AGCACCTTTT CCTAATGAAA GTTGTGCTAC TGGGTATCTG TGTTTGAnTT	360
50	ACAAAATCTT ChAAGTCCTG GATGGAGGTG AAAACTGTTA (2) INFORMATION FOR SEQ ID NO: 3784:	400

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3784:	
10	GGTACTAAGA TGTTTCAGTT CTCCGGGTGT GCCTTCTGAT ATGCTATGTA TTCACATATC	60
	GATAACATGA CATAACTCAT GCTGGGTTTC CCCATTCGGA AATCTCTGGA TCAAAGCTTA	120
	CTTACAGCTC CCCAAAGCAT ATCGTCGTTA GTAACGTCCT TCATCGGCTT CTAGTGCCAA	180
15	GGCATCCACC GTGCGCCCTT AATAACTTAA TCTATGTTTC CACCATTTTT ATAAGTCAAA	240
	CGCTCACATA CGGCTTCGTT TTCATTATTT TAAATGCTCA TTTACATAAG TAAACTCTGC	300
	TTTAAAATAA TTTAACTCAT TGTCTGCnAA ACGTTTTCTT TTATAAAAAG AnTTTAAACG	360
20	CGTTAATGAA GCTGTGAGTG TTCCTTCGAA CACGAGnnGA	400
	(2) INFORMATION FOR SEQ ID NO: 3785:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3785:	
	TACTGGAATG ACATCAGATA CATGTGCACC ACCAATCCAT TTCTTTTCAC CATTGATAAC	60
35	CCAAGTATCG CCTTGnCGTT CAGCGACTGT TTCAAGACCT CCCGCAACGT CCGAACCGTG	120
	TTCTGGTTCA GTTAAAGCAA AGCATGTACG CAGTTCATGT GACTGTAATT TAGGTACATA	180
40	TTTCGCAATT TGTTCTTTGC TACCTCCGAA ATAGAAAGTG TTATGCCCTA AACCTTGGTG	240
40	AACACCGAGT AGGGTAGCTA AGGAAATATC AAATCGCGCG AGTAGGTAAG ACATGAAAAA	300
	CTGAAATAGT TGACTAGGCA TTTTGGCGTT TGGACGATCC TTGTAAAGTA ATGGATTGTT	360
45	AAAATAATTT AATTCTCCCA GTCTTTAAAT AGTCCTCGGG	400
	(2) INFORMATION FOR SEQ ID NO: 3786:	
<i>50</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TCATTTGACG AATTTCATTG TTATTCAAAA TTCTATCTAA TCGTGCTTTT TCAACATTTA	60
	ATATCTTACC TCGTAATGGT AAAATCGCCT GCGTTCTAGA GTCACGACCA GATTTTGTAG	120
5	ACCCCCCGGC AGAGTCCCCT TCGACTAAGA AAATCTCACA TTCTTCAGGA CTTTTACTAG	180
	AGCAATCGGC TAATTTACCT GGAAGCTTGC TACATCTAAC GCTGATTTAC GACGTGTTAC	240
10	TTCACGCGCT TTTTTCGCAG CAACACGTGC ACGGCCCGCC ATAATACCTT TTTCAACCAC	300
10	TGTACGTGCG ACTTGTGGGA TTTTCATATA AAAATCGTTC AAAGTGCTCT GAGAATAATT	360
	TATCTACAAC TTGACGCACT TCAGAATTAC CTAATTTTGT	400
15	(2) INFORMATION FOR SEQ ID NO: 3787:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3787:	
25	TCTCTTCCCG TTTCGCTCGC CGCTACTAAG GGAATCGAAN TTTCTTTCTC TTCCTCCGGG	
	TACTAAGATG TITCAGTTCT CCGGGTGTGC CTTCTGATAT GCTATGTATT CACATATCGA	60 120
	TAACATGACA TAACTCATGC TGGGTTTCCC CATTCGGAAA TCTCTGGATC AAAGCTTACT	120
30	TACAGCTCCC CAAAGCATAT CGTCGTTAGT AACGTCCTTC ATCGGCTTCT AGTGCCAAGG	240
	CATCCACCGT GCGCCCTTAA TAACTTAATC TATGTTTCCA CCATTTTTAT AAGTCAAACG	300
	TTAACATGAA GTTACGTTCT TTTATAAAAA GATTTAAACG CGTTATTAAT CTTGTGAGTG	360
35	TTCTTTCGGA CACTAGCGAT TATTTCTDAT GATDCAAGCT	400
	(2) INFORMATION FOR SEQ ID NO: 3788:	100
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3788:	
	ATTCTCTGCT TTCATCTCAT TTGGTGACTA ATACCCTGAT TTTGTCCAAG TAAATGCTTC	60
50	ATAAAGTATT CTTGACCTTT TGCAGAACTT GAAATTAAGT TTGAACGCCA TATATAATGA	120
	TTTTGGATGA TTCTTTTCA AATCAGGATC TCTATTGCAA ATTGTGTTTG TnTTGATTTC	180

	TUTTUTGCAA ACAACAAACT ATTTTTATTA AATTGTGGAT ATGATGGTAA CCAACCAAGT	300
	CTAGCTGCTA ANACATTATA ATCAGCTGGA TGTTGATGCT TTAACTCCTC TGTTTTAGCT	360
5	AATGGAGATT TTAAACGATC TACATTTGAC TCTTCATAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3789:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15 .	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3789:	
	CGGTTTCTTA ATTATGAACG CAACTATGAA TGGCTTATTA ACTATCACGG GCACATTGGC	60
	AAAAGATCAG CTTGCACAAA ATGGACAAGG CATGGTGCTC GGTATACAAA CGGTTGAAAC	
20		120
	CGGTGTTTTT GGCGGGATTA TCACAGGTAT TATGACCGCA ATACTTCACA ACAAATATCA	180
	CAAAGTGGTA TTACCACCGT ATTTAGGTTT CTTTGGTGGC TCTAGATTTG TCCCTATTGT	240
25	CACAGCATTT GCCGCAATCT TTTTAGGTGT ATTGATGTTT TTCATTTGGC CAAGCATACA	300
	nGCCGGCATT TATCATGTTG GTGGGATTTG TAACGAAAAC AGGTGCCATC GGTACTnTTG	360
	TTTATGGGTT CATCTTTAGG ATTGTTAGGT CCACTCGGTT	400
30	(2)-INFORMATION FOR SEQ ID NO: 3790:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 716 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3790:	
40	ATAATGGACT GTGCCGnGTA ATAATATnGn TCTCTAAAAG TTGTATTTTA AAAATAGTTC	60
	TTTAAATTAT ATACCCACCA CATTTGGTGA KGAACCTAAA AAAAAGCACT TCCCAAAAAT	120
45	GGAAAGTGCA AGTAGTGAGC CATAGAGGAT TCGAACCTCT GACCCTCTGA TTAAAAGTCA	180
	GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC TAGCTGGATT CGAACCAACG	240
	AGTGACGGAT CAAANGTCCG TTGCCTTACC GCTTGGCTAT AGCCAATATA TAGATGGTGG	300
50	AGGGGGGCAG ATTCGAACTG CCGAACCCGA AGAGCGGATT TACAGTCCGC CGCGTTTACC	360
	ACTTCGCTAC CCCTCCAGCT TATTCATATA ATTTAATAAT CAAAATGGTG GAGAATGACG	420

	CAAAATAATG ACTCCTACGG GACTCGAACC CGTGTTACCG CCGTGAAAGG GCGTGTTCTT	540
	AACCGETGAC CAAGGAGCCA TGGCTCaCcA GGTAGGACTC GAACCTACGA CCGATCGGTT	600
5	TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGGATTA ATATTATGCC TGGCAACGTT	660
	CTACTCTAGC GGAACTAAAG TTnGAACTNA CCATCGACGC TAAAGGAGCT TAACTT	716
	(2) INFORMATION FOR SEQ ID NO: 3791:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3791:	
20	TGTCATGACG TTATTTGAAG ATATCGCGCA AGTCTTTTTA AAGGTAACAC TATCATTTAT	60
	GCAATACGGC GCATTACCAG AGTTGCATGG TCAAAATATA TTGTTGTCAT TTGAAGATGG	120
	ACGTGTACAA AAATGCGTGT TACGTGATCA TGATACTGTC AGAATTTATA AACCATGGCT	180
25	AACAGCACAT CAGCTTTCAT TGCCGAAGTA TGTCGTCAGA GAAGATACAC CTAATACGCT	240
	AATTAATGAG GATTTGGAAA CATTCTTTGC nTGATTTTCA AACATTAGCT GTGATCGGTA	300
	AATCTATATG CCATTATTGA TGCAATTCCA AGATTTATTT GGTGTGAAGT GNAGCATGAA	360
30	CTTATGTCGT TGTTAAAACA AATTTTGAAA AAAGGAAGTG	400
	(2) INFORMATION FOR SEQ ID NO: 3792:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3792:	
	TTTTCACACA ATACATGGAC ACCATGGTTC AATGCTTCTA TAGAAAGATC AGCATGGAAT	60
15	TTATTAGGTG TACAAATGAC CACCGCATCA ACAAGTTTAA ACAGCTCGCT AGGTGTCTCA	120
	ACTGCATGAG GTATATTAAA GCGCTTCGCA ACATCAATCA TCTGCACTGT ATTAATATCT	180
	TGTACTGCAA CTAATGAGAC TGTGTCTTTG AGTTTCAGCA ATGCTGGAAT ATGACGGTCT	240
50	TGTGCAATAC CACCAACACC TATCACACCA ACTTTTAATT TTGTCATGAT GTGCCTCCTT	300
	ACCOMPANIATE CITE ATTICADE CITE ATTICCT TICCTIGATE TRICCAGACTG ATARATVOCT	360

	TACCA	425
5	(2) INFORMATION FOR SEQ ID NO: 3793:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3793:	
15	GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC TAGCTGGATT CGAACCAACG	60
	AGTGACGGAG NAAAGGTCCG TTGCCTTACC GCTTGGCTAT AGCCCAATAT ATAGATGGTG	120
	GAGGGGGGCA GATTCGAACT GCCGAACCCG AAGGAGCGGA TTTACAGTCC GCCGCGTTTA	180
20	GCCACTTCGC TACCCCTCCA GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG	240
	ACGGGTTCGA ACCGCCGACC CTCTGCTTGT AAGGCAGATG CTCTCCCAGC TGAGCTAATT	300
25	CTCCAAAATA ATGACTCCTA CGGGACTCGA ACCCGTGTTA CCGCCGTGAA AGGGCGGTGT	360
	CTTAACCGCT TTGACCAAGG AGCCATGGCT CCACAGGTAG	400
	(2) INFORMATION FOR SEQ ID NO: 3794:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3794:	
40	ATCAGCAGGG TTGAAAGTAC CTGCTGCAAC AGTAATACCA TTATTAGTTC CAGCAATACC	60
40	TGCTACAGTT GCTGCAGATG CTTCTTTCAC CCATGGACTC GTATTATTGC GACGTGTAAA	120
	TGTnTCACAA CGTTACCATT ACGTTTAATA ACTAATTTAT CAGCGTATGT CGTTACGTTA	180
45	CCGCCATGTG TATTCACTGT TTGGTTTGCT CCAGGTGCAA TTGTAATCGC TCCTGCCGCT	240
	GTTTCAGTCA CAGTTGGTTT CGCTGGTTGC ACATCTTTTA CTACAAATTT CGCTGGTAAA	300
	GATGITGCAA AAGTATGTCC GTTATAGATG ACGTCCATAT TTTGCGTTAA CGACTITAGC	360
50	CACATTCGGT TTATTCATAG CGGACCAGTT TGCGTCCATT	400
	(2) INFORMATION FOR SEQ ID NO: 3795:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
6		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3795:	
	GCGCCGAAAA TGTACCGGGG CTAAACATAT TACCGAAGCT GTGGATTGTC CTTTGGACAA	60
10	TGGTAGGAGA GCGTTCTAAG GGCGTTGAAG CATGATCGTA AGGACATGTG GAGCGCTTAG	120
	AAGTGAGAAT GCCGGTGTGA GTAGCGAAAG ACGGGTGAGA ATCCCGTCCA CCGATTGACT	180
	AAGGTTTCCA GAGGAAGGCT CGTCCGCTCT GGGTTAGTCG GGTCCTAAGC TGAGGCCGAC	240
15	AGGCGTAGGC GATGGATAAC AGGTTGATAT TCCTGTACCA CCTATAATCG TTTAATCGAT	300
	GGGGGGACGC AGTAGGATAG GCGAACGTGC CATTTGATTG CACGTCTAAA GCAGTAAAGC	360
20	TGAGTATTAG GCNAATCCGG TACTCGTTNA AGGCTGAACT	400
	(2) INFORMATION FOR SEQ ID NO: 3796:	
25 _.	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3796:	
	GCACATGTTG CCATGCTTGA GCTAAATTAC CTTGCATCAT TGCTAGCTTT TCTTGTATTA	60
05	ACTGATATTT ACTAATTGGT TTGCCGAATT GCTTACGCTC AGTGACATAA TCTAATGTGG	120
35	CACGTAAAGC GCCACCATAC CACCTGTAGC CATATAAGCA ACGSCTGCTC TCGTTGAATA	180
	AAGAATTTTG GCAATATCTT TAAAGCTTGT TATGTTTTGT AAGCGATCCG CTTCATCTAC	240
40	TTTGACATTA GTTAATTTAA TTAGGGCGTT AGGAACAATG CGAAGTGCGA TTTTATTATC	300
	AATGACTICA ATATCGACGC CATCTTGTTC TGGTCTGACT ACAAAGCAAT GGGGTTTGCC	360
	AGTTTCnGTT ATTTACTGCG AATACTGGGG GGGnGnGGTT	400
45	(2) INFORMATION FOR SEQ ID NO: 3797:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3797:

	GGAACACCAG TGGCGAAGGC GACTITCTGG TCTGTAACTG ACGCTGATGT GCGAAACGTG	120
	GGGATCAAAC AGGATTAGAT ACCCTGGTAG TCCACGCCGT AAACGATGAG TGCTAAGTGT	180
. 5	TAGGGGGTTT CCGCCCCTTA GTGCTGCAGC TAACGCATTA AGCACTCCGC CTGGGGAGTA	240
	CGACCGCAAG TTGAAACTCA AAGGAATTGA CGGGGACCCG CACAACGGTG GGAGCATGTG	300
10	GTTTAATTCG AAGCAACGNA GAGAACCTTA CCAATCTTTG ACATCCTTTT GACACTCTAG	360
	GAGATAGAGC CTTCCCTTCG GGGGGACNAA GTGACAGTTG	400
	(2) INFORMATION FOR SEQ ID NO: 3798:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3798:	
	CACAAAACAA GCCAAGCAAA ACAAACGCAT ATAACGTAAC AACACATGGA AACGGCCAAG	60
25	TATCATATGG CGCTCGCCCA ACACAAACA AGCCAAGCAA AACAAATGCA TACAACGTAA	120
	CAACACATGC AAACGGTCAA GTGTCATACG GAGCTCGCCC GACATACAAG AAGCCAAGTA	180
30	AAACAAATGC ATACAATGTA ACAACACATG CAGATGGTAC TGCGACATAT GGGCCTAGAG	240
	TAACAAAATA AGTTTGTAAC TCTATCCAAA GACATACAGT CAATACAAAA CATTACGTAT	300
	CTTTACAACA GTAATCATGG CATTCTATGG ATGCTTCTAA CTGGAATTAA AGCATCGGAA	360
35	CAATCGGGAN GCATATTTCT AAAATTATTT ATTCCATTAT	400
	(2) INFORMATION FOR SEQ ID NO: 3799:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45 ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3799:	
	CTTCGCCGAT ATGGGGGAAG CTAGGTGATA AGATCAGCCG AAAATGGATG GTGTTAAGAG	60
50	CGTTACTTGG TTTGGCGGTA TGCTTATTTT TAATGGCATT GTGTACGACA CCATTACAGT	120
	TTGTACTTGT GAGGTTATTG CAGGGACTAT TTGGTGGTGT TGTTGATGCA TCAAGTGCGT	180
	TTGCGAGTGC AGAGGCGCCA CTGAAGGATC GTGGAAAGGT ATTAGGAAGA CTGCAAAGTT	240
<i>55</i>		

	TTTTAGTGCG TTACTGATGA GTATTGCCGT TATTACTTTT ATTGTCTGTn TTTTCGGTGC	360
	CATTAAAATG ATTGAAACGA CACATATGGC CAAAnnCACA	400
5	(2) INFORMATION FOR SEQ ID NO: 3800:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3800:	
	GGAATCTATT ATATTAGATG TAAAAAATTT CGCGCAAAAT GTGTTAGGTA AAGGTGTCAT	60
	TGTCGTCAAT GATGTGCCTG GCTTTGTCGC AAATAGAGTC GGCACGCAAA CAATGAATGA	120
20	TATTATGTAT CGCGCCGAGC AACACAAGAT AAGCATTGTA GATGTGGATG CTTTAACTGG	180
	GCAAGCGATT GGTCGTCCTA AAACAGGTAC ATATGCGCTA TCTGACCTAG TCGGTTTAGA	240
	TATTGCAGTG TCTGTAAATT AAAGGCATGC AACAAGTACC TGAAGAAACA CCTTATTTTC	300
25	ATGATGTCAA AATGTAAATA CGTTGTTTGA CCATGGGCGC ACTCGGACGT TAAnnCGnAA	360
	ACCAAGGTT TTTACCAAAA AGGGTTAAAG GGMAACTTAA	400
30	(2) INFORMATION FOR SEQ ID NO: 3801:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3801:	
40	TGCAGGCGTT TCTGGTCTGC ATAGTTTACG CATACGACCT GCGCGATCCT TATCTGGTAA	60
	TAAATTGTAA AACGATAGTT CCCGTTGTTC CTAATAGTTG TATTCTATCT GACGCATAAT	120
45	GTGAAAAATA ACCTGCCATC TCTAAGCCCG GTCTTGATAT ATCAGCATTT TTAATTGGCT	180
40	TCGATAGTCC TTCTTCACCA GCGATTAAAT CTAACTTTAA TGTTTCAACT AGTTTTCTG	240
	TCGTTAACAT GGGTTCACCT CAATTGTATT TACCCTACTC TTACATCTCT TCTTATCATA	300
50	TCAAAAATAT AACACCAATC TACATTGAAA AGCTAAAnTA AATATTAATG TTCATTATTG	360
	TTATHATTTT ACAAGTCAAT ATCATCATAA TTTATTGCTG	400
	(2) INFORMATION FOR SEQ ID NO: 3802:	
55		

6	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3802:	
10	TTTCACTTTT GAACCATGCG GTTCAAAATG ATTATCCGGT ATTAGCTCCG GTTTCCCGAA	60
	GTTATCCCAG TCTTATAGGT AGGTTATCCA CGTGTTACTC ACCCGTCCGC CGCTAACATC	120
	AGAGAAGCAA GCTTCTCGTC CGTTCGCTCG ACTTGCATGT ATTAGGCACG CCGCCAGCGT	180
15	TCATCCTGAG CCAGGATCAA ACTCTCCATA AAAATTATGA TGTTTGATTA GCTCATAAAT	240
	ACTARATAAT GTTTGTAACT TATAGTTACG TTTTTTGGAA TTAACGTTGA CATATTGTCA	300
00	TTCAGTTTTC AATGTTCATT TTTCTTACCG ACAAGAATTA ATTATACATT TTATTAACAT	360
20	TTAAGTCAAT AACTTTnTTT ATCCTGTCCA TTTnATTTTT	. 400
	(2) INFORMATION FOR SEQ ID NO: 3803:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3803:	
	TAGTCACCAG ACATATGAAT GTAATTTATA CATTCAAAAC TAGATAGTAA GTAAAAGTGA	60
35	TTTTGCTTCG CAAAACATTT ATTTTGATTA AGTCTTCGAT CGATTAGTAT TCGTCAGCTC	120
	CACATGTCAC CATGCTTCCA CCTCGAACCT ATTAACCTCA TCATCTTTGA GGGATCTTAT	180
40	AACCGAAGIT GGGAAATCTC ATCTTGAGGG GGGCTTCATG CTTAGATGCT TTCAGCACTT	240
	ATCCCGTCCA CACATAGCTA CCCAGCTATG CCGTTGGCAC GACAACTGGT ACACCAGAGG	300
	TATGTCCATC CCGGTCCTCT CGTACTAAGG ACAGCTCCTn TCAAATTTCC TACGnCCAng	360
45	ACGGATAGGG ACCGAACTGT TTTCACGACG GTnCTGAACC	400
	(2) INFORMATION FOR SEQ ID NO: 3804:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 457 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AGTINCACTCA CINCCAGATGT TTAAGTCCTG TGCGTCTGCC AGTTCCGCCA CCCCGGCACT	60
	ATAAAAATGG AGCAGAAGAC GGGATTCGAA CCCGCGACCC CAACCTTGGC AAGGTTGTAL	120
5	TCTACCGCTG AACTACTTCT GCATATGCGG GTGAAGGGAG TCGAACCCCC ACGCCGTAAG	180
	TTAGWATCCT AAGTCTAGTG CGTCTGCCAA TTCCGCCACA CCCGCAAATG GTGAGCCATA	240
	GAGGATTCGA ACCTCTGACC CTCTGATTAA AAGTCAGATG CTCTACCAAC TGAGCTAATG	300
10	GCTCTTCCAT GGTGCCGGCC AGAGGACTTG AACCCCCAAC CTACTGATTA CAAGTCAGTT	360
	GCTCTtACCA ATTGAGCTAG GCCGGCAATA TGTAAGAATA AATGGTGGAG AATGACGGGT	420
5	TTCGAAACCG CCGnACCCTC TGGCTTGTTA AGGGCAG	457
	(2) INFORMATION FOR SEQ ID NO: 3805:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3805:	
	ACTITITATI TIGACGITIT AGACATAAAA AAAGCICACG GICTCAACII GCCIGGCAAC	60
0	GTTCTACTCT AGCGGAACGT AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	120
	GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA	180
	CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT	240
5	TTCTTTGTGT TTACTTTTTA TnTTGACGTT TTAGGCATAA AAAAAAGAGA CCTTGCGGTC	300
	TCAATGCGGC TCATCGCATC CATHTTTTGC CGGGCAACGT TCTACTCTTA GCGGAACGTA	360
	AGTTGGCTAC CATCGTCGCT AAAGACCTTT TTGGACTGTG	400
0	(2) INFORMATION FOR SEQ ID NO: 3806:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
ю	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3806:	
	GTTATGAAAG TCGCGCTTAA AATGCGTTAA TGTGACAAGG ATAATTCAAC ATCGTTTCAT	60
	TTTACTGAGT CATTGCACTT ATCATACACA TTATATTTAG CATGAGTTAT ATTACTAAAA	120

	TCATTGGCTT AATATTTACA GCGCTTGGTA TTGCAGGTGC CGTATTACCT TTACTGCCAA	240
	CGACCCCTTT TTTACTCGTA GCAGTTTTTT GCTTTGCTCG AAGTTCAGAT CGCTTTTACA	300
6	ATTGGGCnnA TTAATCAAAA AATTTATAAA GAATATGTAG AAAACCTTTn TTTGACATCG	360
	AGGCTACACG CTACAACAGA AAATTGAAAA TTTAATTAGC	400
10	(2) INFORMATION FOR SEQ ID NO: 3807:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3807:	
20	AGGAGAACAT GCTGTTACAT TTGGAGAGCC TGCTATTGCA GTGACCGTTT AACGCAGGTA	60
	AAATCAAAGT TTTAATAGAA GCCTTAGAGA GCGGGAACTA TTCGTCTATT AAAAGCGATG	120
	TTTACGATGG TATGTTATAT GATGCGCCTG ACCATCTTAA GTCTTTGGTG AACCGTTTTG	180
25	TAGAATTAAA TAATATTACA GAGCCGCTAG CAGTGAACGA TCCAAACGAA TTTACCACCA	240
	TCACGTGGAT TAGGATCGAG TGCCAGCTGT CGCGGTTGCT TTTGTTCGTG CAAGTTATGG	300
30	ATTTTTTAGG GNAAATCATT AACGAAAGNA AGAACTCATT GGAAAAGGCT NATTGGGCCA	360
	GAAGCAAATT GCCACATGGT AAAACCAA	388
	(2) INFORMATION FOR SEQ ID NO: 3808:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 447 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3808:	
	ATGCGCAGAG TATATGGAGG AACACCAGTG TCGAAGCGCA CTTTCTGGTC TGTAACTGAC	60
45	GCTGATGTGC GAAACGTGKG GGATCAAACA GGATTAGATA CCCTGGTAGT CCACGCCGTA	120
	AACGATGAGT GCTAAGTGTT AGGGGGTTTC CGCCCCTTAG TGCTGCAGCT AACGCATTAA	180
<i>50</i>	GCACTCCGCC TGGGGAGTAC GACCGCAAGT TGAAAACTCA AAGGTATTGA CGGGGACCCG	240
	CACAAGCGTG GGAGCATGTG GETTAATTCG AAGCAACGnn GAGGAACCTT ACCAAATCTT	300
	GACATCCTTT GACAACTCTA GAGATAGAGC CTTCCCCTTC nGGGAACAAA TGACAGGTGG	360

	ACCCITANGE TIATITIGECA TEATTAN	447
	(2) INFORMATION FOR SEQ ID NO: 3809:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3809:	
15	CCAACTGAGC TACTGAACCA TAATAAAAAT GTAATGACTG GCGGTCTCGA CGGGAATCGA	60
	ACCCGCGATC TCCTGCGTGA CAGGCAGGCG TGTTAACCGC TACACTACGA GACCTATAAA	. 120
	ATATTGCGGG AGGCGGATTT GAACCACCGA CCTTCGGGTT ATGAGCCCGA CGAGCTACCG	180
20	AACTGCTCCA TCCCGCGATA ATAAAAATA ATGGCGGAGG AAGAGGGATT CGAACCCCCG	240
	CGGCCCGTTA AGGCCCTGTC GGTTTTCAAG ACCGATCCCT TCAGCCGGAC TTGGGTATTC	300
	CTCCATTATT ATAGGTAAAT CGCTATTAAT TATAAAATTA AATGGCGGTC TCGACGGGAA	360
25	TCGAACCCGC GATCTCCTGC GTGACAGGCA GGCGTGTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3810:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3810:	
	TGCTTGGTAA AATCTATATT TTACTTACTT ATCTAGTTTT CAATGTACAA ATAATGGTGG	60
40	GCCTAAGTGG ACTCGAACCA CCGACCTCAC GCTTATCAGG CGTGCGCTCT AACCAGCTGA	120
	GCTATAGGCC CATTTTTTTG AATGTTAAAT AAACATTCAA AACTGAATAC AATATGTCAC	180
	GTTATTCCGC ATCTTCTGAA GAAGATGTTC CGAATATATC CTTAGAAAGG AGGTGATCCA	240
45	GCCGCACCTT CCGATACGGC TACCTTGTTA CGACTTCACC CCAATCATTT GTCCCACCTT	300
	CGACGGCTAG CTCCTAAAAG GTTACTCCAC CGGCTTCGGG TGTTACAAAC TCTCGTGGTG	360
	TGACGGGCGG TGTGTACAAG ACCCGGGAAC GNATTCACCG	400
50	(2) INFORMATION FOR SEQ ID NO: 3811:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3811:	
	GCTTCATGCT TAGATGCTTT CAGCACTTAT CCCGTCCACA CATAGCTACC CAGCTATGCC	60
10	GTTGGCACGA CAACTGGTAC ACCAGAGGTA TGTCCATCCC GGTCCTCTCG TACTAAGGAC	120
	AGCTCCTCTC AAATTTCCTA CGCCCACGAC GGATAGGGAC CGAACTGTCT CACGACGTTC	180
	TGAACCCAGC TCGCGTACCG CTTTAATGGG CGAACAGCCC AACCCTTGGG ACCGACTACA	240
15	GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAACCT CCCCGTCGAT GTGGAACTCT	300
	TGGGGGAGAT AAGCCTGTTA TnCCCGGGGT AGCTTTTATC CGTTGAGCGA TGGnnCTTCC	360
20	ATGCGGGAAC CACCGGGATT	380
20	(2) INFORMATION FOR SEQ ID NO: 3812:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>30</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3812:	
	GAGGGATCTT ATAACCGAAG TTGGGAAATC TCATCTTGAG GGGGGCTTCA TGCTTAGATG	60
	CTTTCAGCAC TTATCCCGTC CACACATAGC TACCCAGCTA TGCCGTTAGC ACGACAACTG	120
35	GTACACCAGA GGTATGTCCA TCCCGGTCCT CTCGTACTAA GGACAGCTCC TCTCAAATTT	180
	CCTACGCCCA CGACGGATAG GGACCGAACT GTCTCACGAC GTTCTGAACC CAGCTCGCGT	240.
40	ACCGCTTTAN TGGGCGAACA GCAACCCCTT GGGACCGACT ACAGCCCCAG GATGCGATGA	300
40	GCCGACATCG AGGTGCCAAA CCTCCCCGTC GnTGTGAACT CTTGGGGGAG ATAAGCTGTT	360
	ATCCCCGGGT GAGNTTTnTC CGTTGA	386
45	(2) INFORMATION FOR SEQ ID NO: 3813:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3813:

	CTTGGTACTT CTGGTGTTGG TGGCGTTGGT GTTTCCGGCT CACTTGGTAC TTCTGGTGTC	120
	GGTGGCGTTG GTGGCACGAT TGGAGGTGTT GTATCTTCTT CAATCGTTTG TTGACCTTCA	180
5	TTTTGGCCGC TTACTTTTGG AAGTGTATCT TCTTCAAAGT CAACACTATT GTGTCCACCG	240
	AATTGATAAC TTGGTTTATC TTTATTTGTA TCTTCTTCAA TAATTTCAGT GTGCTTATTG	300
	AATCCGTGAA TATGTGGCAC nTGGTCGAAG TCGATATCAA TGATGTTACC GCCATGTTCA	360
10	TACTTAGGIT TGTCTTTTC TGTAnCTTCC TCGAATGACT	400
	(2) INFORMATION FOR SEQ ID NO: 3814:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3814:	
	TAATTGGGCT ACCATCGTCG CTAAAGACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT	60
25	TCCTCTCCTT CGGCTCTCGC TTACTCATTT AGCTCAACTA AACTCGTTGC GCCCTTTTCT	120
	CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTACTTTT	180
~~	TATTITGACG TITTAGGCAT AAAAAAAAGA GACCITGCGG TCTCAATGCG GCTCATCGCA	240
30	TCCATTITT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGGCT ACCATCGTCG	300
	CTAAAGACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCCTT CGGCTCTCGC	360
35	TTACTCATTT AGCTCTACTA AACTCGGTGC GCTCTTTTCT	400
	(2) INFORMATION FOR SEQ ID NO: 3815:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3815:	
	TTCTTTCATA TGATTTTTA GATTTTAGTA AGTCAATAAA GCCAATTTTC TCCAACGATT	60
	GAATGTAACG TTGATTGATA AATGTATTTC TTGGTAAATC ACCACCCGCT AAAATTGTGG	120
50	CGATATTTAA GGCAATATGA TAATCATGGT CGCTAATAAA ATGACCCCGT CTTTGCGCAT	180
	CTAATTGTCC TIGGATCAAT GCTTTGAAGT CTTCACCTAA AGCGATATAT TGATGTCTAG	240

	GITGIGGIGI ATTGAAAATA ATCGTATCIG GTATCACGTA AATTACCATA ACGACGTGCC	360
5	TCCAAAGGCA TTTGGTAnGA GCCTTCGGCA ATGCCGATAA	400
•	(2) INFORMATION FOR SEQ ID NO: 3816:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3816:	
	CCAATATTTA TATTAATGAA AATAAGATGT TATATTCATT GTTAATTTAA CACATAGTAA	60
	GANAAACAGT CATAAATTGA TTTCTAATTG AAATCATCTT ATGACTGCTT TTTATTATAC	120
20	TITACATTIC TOGITTOGIC AGATICAAAC GITTICACIT CGCCAAGCCA TOTITCTITG	180
	TGTTTGCTTT TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTTGCGGT CTCAATGCGG	240
25	CTCATCGCAT CCACTTTTTG CCTGGCAACG TTCTACTCTA GCGGAANTAA GTCGGACTAC	300
	CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG GAACAGGTGT GACCTCCTTG	360
	GCTATAGTCA CCAGACATAT GAATGTAAAT TCATACATTC	400
30	(2) INFORMATION FOR SEQ ID NO: 3817:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3817:	
40	TGTTATTGTT CAAAATCATG ATCAAGATCA GTATATCGGG GGGNATTATG AAGCGATGCA	60
	TACATTATCA CATAATAAGA TTAAATCACA ATTACGTATG ACCTTACCGG AGTACATGAT	120
45	ACCAGTTAAT TTCATGCATA TTGAGCAAAT TCCTATTACT ATTAATGGGA AATTAGATAA	180
	GAAGGCATTG CCTATCATGG ACTATGTCGA TACGGATGCC TATGTAGCAC CGAGTACAGA	240
	TACCGAACAC TTGCTATGCC AAATTTTTGC AGATATTTTA CATGTGAATC AAGTAGGTAT	300
50	TCATGATAAT TTCTTTGAAT TAGGTGGCCA TTCATTAAAA GCAACGTTAT GGnTGGAATC	360
	GGATAGAGGC ATCTACTGGG GAAACGATTA CCAATTGGGG	400
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 3818:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3818:	
10	TCGGAATCTG GGAGGACCAT CTCCTAAGGC TAAATACTCT CTAGTGACCG ATAGTGAACC	60
	AGTACCGTGA GGAGAAGGTG AAAAGCACCC CGGAAGGAAG TTGAAATAGA ACCTGAAACC	120
	GTGTGCTTAC AAGTAGTCAG AGCCCGTTAA TGGGTGATGG CGTGCCTTTT GTAGAATGAA	180
15	CCGGCGAGTT ACGATTTGAT GCAAGGTTAA GCAGTAAATG TGGAGCCGTA GCANAACATG	240
	TTCTGAATAG GGCGTTTAGT ATTTGGTCGT AGCCGNAAAC CAGGTGATCT ACCCTTGGTC	300
	CAGGTTGAAG TTCAGGTAAC ACTGGAATGG AGGACCGAAC CGACTTACGT TTGAAAAGTG	360
20	AGCGGATGAA CTGAAGGTAG CGGAGAAATT CCCAATCGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3819:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3819:	
	CAACGAGAGA CTCGGTGAAA TCATAGTACC TGTGAAGATG CAGGTTACCC GCGACAGGAC	60
35	GGAAAGACCC CGTGGAGCTT TACTGTAGCC TGATATTGAA ATTCGGCACA GCTTGTACAG	120
	GATAGGTAGG AGCCTTTGAA ACGTGAGCGC TANTTACGTG GAGGCGCTGG TGGGATACTA	180
40	CCCTAGCTGT GTTGGCTTTC TAACCCGCAC CACTTATCGT GGTGGGAGAC AGTTTCAGGC	240
	GGGCAGTTTG ACTGGGGCGG TCGCCTCCTA AAAGGTAACG GAGGCGCTCA AAGGTTCCCT	300
	CAGAATGGTT GGAAATCATT CATAGAGTGT AAAGGCATAA GGGACTTGAC TGCGAGACCT	360
45	ACAAGTCGAG CAGGTCCAAA AACGGACnTA GTGATnCGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3820:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TGGCTCGAAC CACCGACCTC ACGCTTATCA GGCGTCGCTC TAACCAGCTG AGCTATAGGC	60
	CATTAATTTG AATGAACAAA CATTCAAAAC TGAATACAAT ATGTCACGTT ATTCCGCATC	120
5	TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG TGATCCAGCC GCACCTTCCG	180
	ATACGGCTAC CTTGTTACGA CTTCACCCCA ATCATTTGTC CCACCTTCGA CGGCTAGCTC	240
10	CTAAAAGGTT ACTCCACCGG CTTCGGGTGT TACAAACTCT CGTGGTGTGA CGGGCGGTGT	300
	GTACAAGACC CGGGAACGTT ATTCACCGTA GCATGCTGAT CTACGATTAC TANCGATTCC	360
	AGCTTCATGT AGTCGAGTTT GCAGACTACA ATMCGAACTG	400
15	(2) INFORMATION FOR SEQ ID NO: 3821:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3821:	
25	TATTAAATTA ATGGTGGGCC TAANTGGACT CGAACCACCG ACCTCACGCT TATCAGGCGT	60
	GCGCTCTAAC CAGCTGAGCT ATAGGCCCAT TAATTTGAAT GAACAAACAT TCAAAACTGA	120
30	ATACAATATG TCACGTTATT CCGCATCTTC TGAAGAAGAT GTTCCGAATA TATCCTTAGA	180
	AAGGAGGTGA TCCAGCCGCA CCTTCCGATA CGGCTACCTT GTTACGACTT CACCCCAATC	240
	ATTTGTCCCA CCTTCGACGG CTAGCTCCTA AAAGGTTACT CCACCGGCTT CGGGTGTTAC	300
35	AAACTCTCGT GGTGTGACGG GCGGTGTGTA CAAGACCCGG GAACGTATTC ACCGTAGCAT	360
	GCTGATCTAC GATTACTNAG CGNTTCCAGC TTCCATGNTA	400
40	(2) INFORMATION FOR SEQ ID NO: 3822: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3822:	
50	TCTACCAACT GAGCTAATGG CTCTAATGGC TGGGCTAGCT GGATTCGAAC CAACGAGTGA	60
	CGGATAAAGT CCGTTGCCTT ACCGCTTGGC TATAGCCCAA TATATAGATG GnGGAGGGGG	120
	GCAGATTCGA ACTGCCGAAC CCGAAGAGCG GATTTACAGT CCGCCGCGTT TACCACTTCG	180

	GAACCGCCGA CCCTCTGCTT GTAAGGCAGA TGCTCTCCCA GCTGAGCTAA TTCTCCAAAA	300
	TAATGACTCC TACGGACTCG AACCCGTGTT ACCGCCGTGA AAGGGCGGTG TCTTAACCGC	360
5	TTGACCAAGG AGCCATGCTC CACAGTAGGA TTCGAACTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3823:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3823:	
	AACTTGCCTC TTTAGGTACA GCATGAGGCC CTAGGAAAGT ATGTTTCATG TCTAAATCAT	60
20	ATTTCTCAGC TARACGATTA GACACTITCA ATTGCTTCAG TTCATTTTCT CTATCTAATC	120
	CATACCACT CTTACTTTCA ACTGCANGCA CGCCGTGTTT AATCATAGTA AGCAAATCAT	180
	GCTCTGCTTT TTTAAACAAG TCATCTTCGG ATGTTTCTCT AGTAGCATTA ACGGTAGATA	240
25	ATATGCCACC ACCCATTTCT AATATTTCAA GGTAAGACTT ACCTGGACGT TTTAATGACA	300
	TCTCATGTTC TCGAGATCCA CCAAATGTNA AATGGGGTAT GTGGCATCTA CTAAGCCGGG	360
30	GGACACTANC TTTCCCACTA GGCATCAATC G	391
00	(2) INFORMATION FOR SEQ ID NO: 3824:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3824:	
	ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT CTCTGGATCA	60
	AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA TCGGCTTCTA	120
45	GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAT CCTACAGGAA	180
	ACGCGTTATT AATCTTGTGG AGTGTTCTTT CGAACACTGA GCGATTATTT CTTATGAATT	240
50	CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATTTTACTT	300
50	ACTITATOTAG TITTCAATGT ACAATTCTTT TTAGTCAAGC GCTCGCATAA GCAATATCAC	360
	TTTGAACCAA AAAAGATTGG AAGGTGAAAT AAACATTCAA	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3825:	
10	ATCGATAACA TGACATAACT CATGCTGGGT TTCCCCATTC GGAAATCTCT GGATCAAAGC	60
	TTACTTACAG CTCCCCAAAG CATATCGTCG TTAGTAACGT CCTTCATCGG CTTCTAGTGC	120
15	CAAGGCATCC ACCGTGCGCC CTTAATAACT TAATCTATGT TTCCATCCTA CAGGAAACGC	180
	GTTATTAATC TTGTGAGTGT TCTTTCGAAC ACTAGCGATT ATTTCTTATG AATTCAAGCT	240
	TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA TCTATATTT ACTTACTTAT	300
20	CTAGTTTTCA ATGTACAATT TCTTTTTAGT CAAGCGCTCG CATAAGCAAT ATCACTTTAA	360
	CCAAAAAATA TTTGAATGTn AAATAAACAT TCAAAACTGA	400
	(2) INFORMATION FOR SEQ ID NO: 3826:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3826:	
35	TCACTCACCG CAGATTTTTA AGTCCTGTGC GTCTGCCAGT TCCGCCACCC CGGCACTATA	60
	AAAATGGAGC AGAAGACGGG ATTCGAACCC GCGACCCCAA CCTTGGCAAG GTTGTATTCT	120
	ACCGCTGAAC TACTTCTGCA TATGCGGGTG AAGGGAGTCG AACCCCCACG CCGTAAGnCT	180
40	TAGATCCTAA GTCTAGTGCG TCTGCCAATT CCGCCACACC CGCAAATGGT GAGCCATAGA	240
	GGATTCGAAC CTCTGACCCT CTGATTAAAA GTCAGATGCT CTACCAACTG AGCTAATGGC	300
	TCTTCCATGG TGCCGGCCAG AGGATTTGAA CCCCCAACCT TATTGGTTAC AAGTCAGTTG	360
45	CTCTTACCAA TTGAGCTAGG nCGGCAATAT GTTAAGATTA	400
	(2) INFORMATION FOR SEQ ID NO: 3827:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3827:	
	AGTGGTGGAA TGGTCTTAAA AGTTGGTGGT CTAACTTTAG AGAAGACCAA AAGAAGAAAA	60
6	GTGATAAATA CGCTAAAGAA CAAGAAGAAA CAGCTCGTAG AAACAGAGAA AATATAAAGA	120
	AATGGTTTGG AAATGCTTGG GACGGCGTAA AAACTAAAAC TGGTGAAGCC TTTAGTAAAA	180
10	TGGGCAGAAA TGCTAATCAT TTTGGCGGCG AAATGAAAAA AATGTGGAGT GGAATCAAAG	240
	GAATTCCAAG CAAATTAAGT TCAAGTTGGA GCTCAGCCAA AAGTTCTGTA GGATATCACA	300
	CTAAGGCTAT AGCTAATTAG TACTGGTAAA ATGGTTTGGA AAAGCTTGGC CAATCTGTTA	360
15	AATTCGACTA CAGGAAGTAT TTACATTCAA ACTAGGCAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3828:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3828:	
	TCTCAGTTCC AGTGTGGCCG ATCACCCTCT CAGGTCGGCT ATGCATCGTT GCCTTGGTAA	60
30	GCCGTTACCT TACCAACTAG CTAATGCAGC GCGGATCCAT CTATAAGTGA CAGCAAGACC	120
	GTCTTTCACT TTTGAACCAT GCGGTTCAAA ATATTATCCG GTATTAGCTA CGGTTTCCCG	180
	AAGTTATCCC AGTCTTATAG GTAGGTTATC CACGTGTTAC TCACCCGTCC GCCGCTAACA	240
15	TCAGAGAAGC AAGCTTCTCG TCCGTTCGCT CGACTTGCAT GTATTAGGCA CGCCGCCAGC	300
	GTTCATCCTG AGCCAGGATC AAACTCTCCA TAAAAATTAT GATGTTGAnT AGCTCATAAA	360
	TACTAAATAA TGTTGTAACT TATAGTACGT TTTTnGAAAT	400
ю	(2) INFORMATION FOR SEQ ID NO: 3829:	
ıs	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3829:	
	CAAGCGCCAT GACATCATAA CTTTCTTGCA CAAGATATGT GAACGGCGGT GTTGATCCTA	60
	GATTCGTGGC ATGCATACGC AAACCATTTT CTTCAATTAC TTCACCAAGG CGTTTAAAAT	120

	ATTGATAAAA CCTTGATGTG TTTCGTGTCA ATGACATACC ATATCGACTA GGTACCTTTT	240
	TAGAATGTTG ATTAATCACA ACAAATATCA TGGCAAGGTC ATCTTCAAAA TGATTCGATT	300
5	CAAGTGGGAr SGGCATATGA CGTCTCATCA CLATACCCTL THTHCCCATT CTGCAAATHC	360
	ACCCATARAT ACTACGGGAC GGAGARCCCG TACCCATTTC	400
10	(2) INFORMATION FOR SEQ ID NO: 3830:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3830:	
20	GGGTACTAAG ATGTTTCAGT TCTCCGGGTG TGCCTTCTGA TATGCTATGT ATTCACATAT	60
	CGATAACATG ACATAACTCA TGCTGGGTTT CCCCATTCGG AAATCTCTGG ATCAAAGCTT	120
	ACTTACAGCT CCCCAAAGCA TATCHCGTTA GTAACGTCCT TCATCGGCTT CTAGTGCCAA	180
25	GGATCCACCG TGCGCCCTTA ATAACTTAAT CTATGTTTCC ACCATTTTTA TAAGTCAAAC	240
	GCTCACATAC GGCTTCGTTT TCATTATTTT AAATGCTCAT TTACATAAGT AAACTCTGCT	300
30	TTAAAATAAT TTAACTCATT GTCTGCTAAA CGTTTTCTTT TATAAAAAGA TTTAAACGCG	360
30	TTATTAATCT TGTGAGTGGT CCTTCGAACA CTAGCGATNA	400
	(2) INFORMATION FOR SEQ ID NO: 3831:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3831:	
	AAATGCGGCT CATCGCATCC ATTTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	60
45	TTGGCTACCA TCGTCGCTAA AGACCTTTCT TGACTTGTGA CAATCGCTTG CTTCTTTCCT	120
	CTCCTTCGGC TCTCGCTTAC TCATTTAGCT CTACTAAACT CGTTGCGCTC TTTTCTCGTT	180
50	TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT CTTTGTGTTT ACTTTTATT	240
50	TTGACGTTTT AGACATAAAA AAAAGAGACC TTGCGGTCTC AATGCGGCTC ATCGCATCCA	300
	TTTTTTGCCT GGGCAACGTT CTACTCTAGC GGAACGTAAT TGGGCTACCA TCGACGCTAA	360

(2) INFORMATION FOR SEQ ID NO: 3832:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3832:	
	AGCTTATTTT AAAACGTCGT TTATTCACTC TGGTTTTGCT TGGTAAAATC TATATTTTAC	60
15	TTACTTATCT AGTTTTCAAT GTACAATTTC TTTTTAGTCA AGCGCTCGCA TAAGCAATAT	120
	CACTITAACC AAAAAATATT TGAATGTTAA ATAAACATTC AAAACTGAAT ACAATATGTC	180
	ACATTATTCC GCATCTTCTG AAGAAGATGT TCCGAATATA TCCTTAGAAA GGAGGTGATC	240
20	CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCACC	300
	TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTGG	360
	TGTGACGGC GGTGTGTACA AGACCCGGGA ACGTATTTCA	400
25	(2) INFORMATION FOR SEQ ID NO: 3833:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833:	
	TTTTCTTCTG GTAAAATATC TGCAATAACA GTATCTATGC CTACTTGTTT TGCAATGGCT	60
	TGAGCAGTGT TTTTATTATC GCCAGTTAAC ATGGCAACTT CAATGCCCAT ATCATGCAAT	120
40	TGTATTATAG CATCTTTGGC ATGATCTTTG ACAGTATCTG CCACTGCnAT GATACCAGTT	180
	AATGAATAAT TAACAGCAAT GAGCATAGCA GTTTTACCAT CTCGTTCATA ATGTGTTAAA	240
	TCATCAGAAA TATGCTTAGG CAAGCTAATA TCATTGTCAG CCATTAAThT ACGGGTTACC	300
45	AACCAATATA TGGTGATGAT CAATCCGTGG CTTCAATACC ATGGCCAGGT ACCGCTTMAA	360
	AGTTGTTGTC TCAGTTAATA TTAATTGCTT TCCTTTTGCA	400
50	(2) INFORMATION FOR SEQ ID NO: 3834:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3834:	
5	naattatatg gaccttgcag gactcgaacc tgcgaccgaa cggttatgag ccgttagctc	60
	TAACCAACTG AGCTAAAGGT CCTAAATATA ATTTTACAAC TAATAAATAG TnGCGGnnGA	120
	GGGGATCGAA CCCCCGACCT CACGGGTATG AACCGTACGC TCTAGCCAGC TGAGCTACAC	180
10	CGCCTTATAT AGTTTGTAAA TAATATGGTG GAGACTAGCG GGATCGAACC GCTGACCTCC	240
	TGCGTGCAAA GCAGGCGCTC TCCCAGCTGA GCTAAGCCCC CATAATAATT ACAGTATATC	300
	GGGAAGACAG GATTCGAACC TGCGACCCCT TGGTCCCAAA CCAAGTGCTC TACCAAGCTG	360
15	AGCTACTTCC CGTATAATTA ACGCGCCCGA TAGGAGTCGA	400
	(2) INFORMATION FOR SEQ ID NO: 3835:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3835:	
	AATAACAATT GCGCCACTAA AACTCAAAAT TTCCACCACC AACATCCAAA TTATCAACAT	60
30	.CGCAACATAA CCAAATGTTA TAATAAATCT ATTACACAAA GAGATAAATT ACTTATGCAA	120
	AGGCGGAGGA ATCACATGTC TATTACTGAA AAACAACGTC AGCAACAAGC TGAATTACAT	180
35	AAAAAATTAT GGTCGATTGC GAATGATTTA AGAGGGAACA TGGATGCGAG TGAATTCCGT	240
	AATTACATTT TAGGCTTGAT TTTCTATCGC TTCTTATCTG AAAAAGCCGA ACAAGnATAT	300
	GCAGATGCCT TGTCAGGTGA AGACATCACG TATChAGAAG CGTGGGCAGA TGAAGAATAT	360
10	CGTGAAGACT THAAAAGCAG GAATTAATTG GTTCAAGTCG	400
	(2) INFORMATION FOR SEQ ID NO: 3836:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3836:	
	CTAATCGCAT CTTTTCAAT CTAAGTGCGT TTGTGACAAA CTTACTGAAC TTAGTGCCAT	60

	ATTATAGCCG AATGCCCAAA ATAGATTTTG ACGAATATTA CGAATGGTTG CTTTACTTGC	180
	ATAAATGGCT TTAGGAATAA GCATCAAGTC GCCACCAAGA ATAGTAATAT CAGCTGCTTC	240
5	AATGGCAACT TCTGTACCTG TACCAATGGC GATACCGATA TCAGCTTTAA CTAAATGCAG	300
	GTGCATCATT TACACCGTCA CCAACCATCG CAACCTTCTT ACCTGTTGGC TGTAGTTTCG	360
10	CAATTGTGGC AGCTTTTTnC TTCCGGnGAA AATATCNGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3837:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3837:	
	AGAGCGGATT TACAGTCCGC CGCGTTTACC ACTTCGCTAC CCCTCCAGCT TATTCATATA	60
	ATTTAATAAT CAAAATGGTG GAGAATGACG GGTTCGAACC GCCGACCCTC TGCTTGTAAG	120
25	GCAGATGCTC TCCCAGCTGA GCTAATTCTC CAAAATAATG ACTCCTACGG GACTCGAACC	180
	CGTGTTACCG CCGTGAAAGG GCGTGTCTTA ACCGCTTGGA CCAAGGAGCC ATGGCTCAAC	240
30	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC	300
30	TGTGGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGGAAGTAAn TCGGACTACC	360
	ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3838:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3838:	
	AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC TACTAAACTC	60
	GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATTTTTC	120
50	TTTGTGTTTA TTTTTATTTT GACGTTTTAG ACATAAAAAA AAGAGACCTT GCGGTCTCAA	180
	ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTTCT ACTCTAGCGG AAGTAATTGG	240
	GCTACCATCG ACGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT CTTTCCTCTT	300
55		

	TEMBRICEAN ACGITITEAN TEGRICEANGE CANTITICET	400
	(2) INFORMATION FOR SEQ ID NO: 3839:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 416 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3839:	
15	TTACGGCCGC CGTTTACTGG GGCTTCGATT CGTAGCTTCG CAGTAGAcrC GACTCCTCTT	60
	AACCTTCCAG CACCGGGCAG GCGTCACCCT GATACATCAC CTTACGGTTT AGCAGAGACC	120
	TGTGTTTTTG ATAAACAGTC GCTTGGGCCT ATTCACTGCG GCTCTTCTGG GCGTTAACCC	180
20	TAAAGAGCAC CCCTTCTCCC GAAGTTACGG GGTCATTTTG CCGAGTTCCT TAACGAGAGT	240
	TCGCTCGCTC ACCTTAGAAT TCTCATCTTG ACTACCTGTG TCGGTTTGCG GTAGGGCACC	300
25	TATTTCTAT CTAGAGGCTT TTCTCGGCAG TGTGAAATCA ACGACTcGAG GACACAATGT	360
23	CTTCTCCCCA TCACAGLTCA GCCTTGAACG rGTaCCGGAT TTGnCTAATG ATTCAG	416
	(2) INFORMATION FOR SEQ ID NO: 3840:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3840:	
	AAGTTAGGCT ACCATCCTCG CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT	60
40	TCCTCTCCTT CGGCTCTCGC TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTTCT	120
	CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTACTTTT	180
45	TATTITGACG TITTAGACAT AAAAAAAGAG ACCTCACGGT CTCAAACTIG CCTGGCAACG	240
	TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	300
	GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA	360
50	CTCGTTGGnG CTCTTTTCT CGGTTTnGTC AGANTTCAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3841:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3841:	
	CGCGACTGAn GAATACAATG nCTACGATAA CTAAACCCAA TCAATCTTTT CATTCTATCA	60
10	ATTCCTTTCA AAATCTTCAC TATATATCAT TAATGTCTAC GTATGAATCT AGCTAGAACA	120
	TTCCCTAGCG TTTGAATCAC TTGGACAATA ATGACTAATA CAATAACGGT AATAATAATG	180
	ACCGTCGTAT CAAATCTTTG ATAACCATAC ACTAAAGCTA AGTCTCCTAT ACCACCACCG	240
15	CCAACAGCTC CTGCCATCGC CGTACTTCCA ATAAGTCCAA TAATCGCAGT GGTAATTGCT	300
	AATACTAACG AACCTAAAGC TTCAGGAATT AAAAAATATC TAATGATTTG TAGTGGTGAA	360
	GCGCCCATCG CTTTCGCCGC TTCAATAATC CCCTCGTCTA	400
20	(2) INFORMATION FOR SEQ ID NO: 3842:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3842:	
	TCGCGATTCG CGTGTTCAGA AATCATCGGC ATCGCGTCAT TCAATGATTC ATATGCATCT	60
	AAAGCAATAG AAGATAATGT GTCTGGCACA TATACCCATG CCAACGTATC AGTAGACGTA	120
35	TGATGTTCTG CTACCGCAAA AACAGTTGTC TCTGGAATAT ACACACCTGA TTGTTTTAAT	180
	CCTTGTCTGA CATTTGGACG ATTACATATC ATCGCTAATA ACTTAGCATT AAAACCGCTT	240
40	GATGCGCCAC CACAAGCCCC ACATTCAAGT GATGCATGAT GTGGATTATT GTGAGAATGA	300
40	CTAGCATGAC CTGCTAACAC AACGAACGGC GCAAATGCTT CGGKTAAATC CATCAATTTC	360
	AACGCTGTAA CGCGAATCAA TTGCTCTGCT CAGTAAATCC	400
45	(2) INFORMATION FOR SEQ ID NO: 3843:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3843:

	GCCAACATCC TAGTTGTCTG GGCAACGCCA CATCCTTTTC CACTTAACAT ATATTTTGGG	120
5	ACCTTAGCTG GTGGTCTGGG CTGTTTCCCn GTCGAACACG GACCTTATCA CCCATGTTCT	180
	GACTCCCAAG TTAAATTAAT TGGACATTCG GAGTTTGTCT GAATTCGGTA ACCCGAGAGG	240
	GGCCCCTCGT CCAAACAGTG CTCTACCTCC AATAATCATC ACTTGAGGCT AGCCCTAAAG	300
10	CTATITCGGA GAGAACCAGC TATITCCAGG TTCGATTGGG AATTCTCCGC TAACCTCAGT	360
	TCATCCGnTC ACTTTCAACG TAAnTCGGGT CGGGTCTCCA	400
	(2) INFORMATION FOR SEQ ID NO: 3844:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 469 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		•
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3844:	
25	ACTITIACTI GCTGCGCCTC CAGCCAAACC TGCTGTTCCA GCACCGATCG CTGCACCTTT	60
٠	TTTGCCATTA TGATGATCTT TAGACTTATC TTGAGACGCT TTATCCTCAG TCGAGTTATT	120
	CGCCTTGCCA GAATTACTTT TGTTTTGAGC GTCATTTGAA TGTTTCTTAG CTTTAGAAGC	180
30	AGCCATTGCA CCAGCTGCAC CTGCAACACC TGCTGTTCCA GCACCAATAG CTGCTGCTTT	240
	TTTACCATTA TGATGTTCTT TAGGTTCATC TTGATCTTGT TTTACAGAAT CATTATCATG	300
	TTCATTTTTT GATGTTTCTG ATTGGTTAGC ACCTGTTGTA AAATATGGTT TAGGTTGCTG	360
35	AGATTGTTCA GCTTCACTCT TATCAGAAAC TGTTGAATGC TCAGTGTTAT TTTCTGCATT	420
	TTTAATAGTA TCGTGTTTAn CCATTGTCCT CGAATGGGTT CnGGATGTG	469
40 45	(2) INFORMATION FOR SEQ ID NO: 3845: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3845:	
50	GCTTCACTAC CAAGTGAAGA AGTTGCTGAA ACTCCTGCAG CACCTGCAAC AGTAACATTA	60
	GAAGGCGACT TCCCAGAAAC AACTGAAAAA ATCCCTGCTA TGCGTAGAGC AATTGCGnAA	120
	CATGGnTTTA ACTCTAAGCA TACTGCACCT CATGTAACAT TAATGGATGA AATTGATGTT	180

	TTAACATTCT TACCTTATGT TGTTAAAGCA CTTGTTTCTG CATTGAAAAA ATACCCAGCA	300
6	CTTAACACTT CATTCAATGA AGAAGCTGGT GAAATCGTTC ATAAACATTA CTGGGAATAT	360
	CGGTATTGCA GCAGACACTG ATAGAGGATT ATTAGTACCT	400
	(2) INFORMATION FOR SEQ ID NO: 3846:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3846:	
	TTAAGCTACC ATCCTCGCTA AGAACCTTTC TTGACTTGTG ACAATCGCTT GCTTCTTTCC	60
20	TCTCCTTCGG CTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTTCTCGT	120
	TTCGTCAGAT TCAAACGTTT TCACTTCGCC AAGCCATTTT TCTTTGTGTT TACTTTTTAT	180
25	TTTGACGTTT TAGACATAAA AAAAGAGACC TCACGGTCTC AACTTGCCTG GCAACGTTCT	240
	ACTCTAGCGG AACGTAAGTT GGGCTACCAT CGTCGCTAAA GACCTTTCTT GACTTGTGAC	300
	AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCnTACT CATTTAGCTC TACTAAACTC	360
30 <u> </u>	GTTGGCGCTC TTTTCTCGGT TCGTCAGATT CAAACGGTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3847:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3847:	
	ATCGTCAACT TATTATTAGA CGATGTACAA GTTACATTAG ACAAAAAAGG TATTACGATG	60
4 5	GACGTTTCTC AAGATGCGAA AGATTGGTTA ATTGAAGAAG GCTATGATGA AGAATTAGGT	120
45	GCACGTCCAT TAAGACGTAT TGTTGAACAG CAAGTACGTG ACAAAATTAC AGATTACTAT	180
	TTAGATCATA CAGACGTTAA ACATGTGGAT ATAGATGTTG AGGGATAACG AATTAGTCGT	240
50	AAAAGGTAAA TAACGACACT TTAACATATC GCGCATCAAA AATGAGCATC AGGTCGCCCT	300
	TGCCTGTGGC TCATTTTTT GAATTATTTC CCTGGGAAAA TGATTCGCTG TGTGCTGTTC	360
	TGTTnCCACA ACAATCACGA TTGAATGTGC ACATGTGACC	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3848:	
	TTTAAAACTC TTTATTCACT CGGTTTTGCT TGGTAAAATC TATATTTTAC TTACTTATCT	60
	AGTTTTCAAT GTACAAATAA TGGTGGGCCT AAGTGGACTC GAACCACCGA CCTCACGCTT	120
15	ATCAGGCGTG CGCTCTAACC AGCTGAGCTA TAGGCCCATT TTTTTGAATG TTAAATAAAC	180
	ATTCAAAACT GAATACAATA TGTCACGTTA TTCCGCATCT TCTGAAGAAG ATGTTCCGAA	240
	TATATCCTTA GAAAGGAGGT GATCCAGCCG CACCTTTCCG ATACGGCTAC CTTGGTmACG	300
20	ACTTCACCCC AAATCATTTG TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC	360
	GGCTTCGGGn GTTACAAACT CTCGTGGGTG TGACnGGCGG	400
25	(2) INFORMATION FOR SEQ ID NO: 3849:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3849:	
35	GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC	60
	TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCCTTC GGCTCTCGCT	120
	TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG ATTCAAACGT	180
40	TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA	240
	AAAAAAAAAA ACCTTGCGGT CTCAATGCGG CTCATCGCAT CCATTTTTTG CCTGGCAACG	300
45	TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	360
43	GACAATCGCT TGCTTCTTTC CTnTCCTTCG GCTCTCGCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3850:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 463 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3850:	
	GTCTACTAAT GTTACAACCA CACCTGATTA ATTGCTTTTT TAGCAGTAAT TGCCACATCT	6
6	GTGTGACGAT AATGATATGC GACAGTTAAT AATTTGTGAT TTTTATTAGC CGCTTCAATC	12
	ATGCGATCAC ACTCTTCCGT CGTCATCGCC ATTGGCTTTT CACACAATAC ATGGACACCA	18
10	TGGTTCAATG CTTCTATAGA AAGATCAGCA TGGAATTTAT TAGGTGTACA AATGACCACC	24
	GCATCAACAA GTTTAAACAG CTCGCTAGGT GTCTCAACTG CATGAGGTAT ATTAAAGCGC	30
	TTCGCAACAT CAATCATCTG CACTGTATTA ATATCTTGTA CTGCAACTAA TGAGACTGTG	36
15	TCTTTGAGTT TCAGCAATGC TGGAATATGA CGGTCTTGTG CAATACCACC AACAACTATG	420
	CACACCAACT TTTAANTTTG TNCATGATGT GCCNGCTTNA CCG	463
	(2) INFORMATION FOR SEQ ID NO: 3851:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 628 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3851:	
30	TATGCTCTAA TGCTGGGCTT AGTGGATTCG ACCAACGAGT GACGNAGTCA AAGTCNGTTG	60
	CTTTACGCTT GGCTATAGCC CCAATATATA GATGTTGGAG GGGGCAGATT CGAACTGCCG	120
	AACCCGAAGG AGCGGATTTA CAGTCCGCCG CGTTTAGCCA CTTCGCTACC CCTCCAGCTT	180
35	ATTCATATAA TTTAATAATC AAAATGGTGG AGAATGACGG GTTCGAACCG CCGACCCTCT	240
	GCTTGTAAGG CAGATGCTCT CCCAGCTGAG CTAATTCTCC AAAATAATGA CTCCTACGGG	300
	ACTCGAACCC GTGTTACCGC CGTGAAAGGG CGtGTcTTAA CCGCTTGACC AAGGAGCCAT	360
40	GGCTCaCAGG TAGGACTCGA ACCTACGACC GATCGGTTAA CAGCCGATAG CTCTACCACT	420
	GAGCTACTGT GGATTAATAT TATGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTLCG	480
45	GACTYACCAT CGACGCTGAA GGAGCTTAAa CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	540
+ 5	CCTCCTTGCT ATAGTCACCA GACATATGGA ATGTGAATTT GATGACATTG CAAAANTAGN	600
	TTAGTAAGTA AAAGTGGATT TTGGnTTn	628
50	(2) INFORMATION FOR SEQ ID NO: 3852:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3852:	-
5	TARAGATTTA ARAGTAGCTG TTATTGGNAC AGGTCGAATT GGCCGTGTAG TAGCCGATAT	60
J	ATTTGCCAAT GGTTATCAAA GTGATGTGGT CGCATACGAC CGTTTCCTAA TGCTAAAATT	120
	GCAACGTATG TCGATTACAA AGATACGATT GAGGAAGCGG TTGAAGGTGC TGATATCGTG	180
10	ACATTACATG TACCTGCAAC GAAATATAAT CATTATCTAT TTAATGCTGA ATTATTTAAA	240
	CATTITAAAA AGGGCGCnTA TTTGTCAATT GTGCGAGAGG TTCTTTAGTA GGATACTAAG	300
	GCGTTATTAG ACGCATTAGA CAATGGTGTG ATTAAAGGTG CAGCACTTGn TTACGTATGG	360
15	ATTTGGAACG GCAAACTTTT TCCCAAGTGG TCCAAAGGGG	400
	(2) INFORMATION FOR SEQ ID NO: 3853:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3853:	
	TCTTAAACAT TAGCCACAGC TAATTGTGAC TTAAAAATAG GAATACATGA GTAAAACTCA	60
30	TCATAAGAAA TACTAATTTC TATAGAAAAA GTATTACTTT ATCGTTGTCC CACCCCAACT	120
	TGCACATTAT TGTAAGCTGA CTTTCCGCCA GCTTCTGTGT TGGGGCCCCG CCAACTTGCA	180
	CATTATIGTA AGCTGACTTT TCGTCACTTG CTGTGTTGGG GCCCCGCCAA CTTGCACATT	240
35	ATTGTAAGCT GACTTTTCGT CACTTTCTGT GTTGGGGCCC CGCCAACTTG CATTGTCTGT	300
	AGAAATTGGG AATCCAATTT CTGCTATGTT GGGGCCCACA CCCCAACTAC GCATTGCCTG	360
	TAGAATTTCT TTTCGAAATT CTCTGTGTTG GGGGCCCACA	400
40	(2) INFORMATION FOR SEQ ID NO: 3854:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3854:	
	CTCCARTOTE CETTARCARA TETRARTCET GTCARTGAGC GATTAACGCA AGCARTTAAT	60

	CARACTERIA INTERCIANE INCIDATOR MICHAELEM ACCIDITION	100
	AATGCTAAAC GTGCGGGTCA AACAGAATCA ACAAATGCAC AAAATGTTAT TAACAATGGT	240
. 5	GATGCGACTG ACCAACAAAT TGCCGCAGAA AAAACAAAAG TAGAAGAAAA ATATAATAGC	300
	TTAAAACAAG CAATTGCTGG ATTANCTCCA GACTTGGCAC CATTACAAAC TGCAAAANCT	360
10	CAGTTGCAAA TGnTATTGTC AGCCACGAGT ACGGCTGGTA	400
10	(2) INFORMATION FOR SEQ ID NO: 3855:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3855:	
	TGTGTGAAAA ACCAATGGCT GAAAACGACA GCAGAAGCTC AAAAAATGAT AGATACAGCT	60
	AAATCAACAG GTAAAAAATT AACAATAGGT TATCAAAATC GTTTCCGAGC AGATAGTCAA	120
25	TTTTTACATC AAGCAGCGCA ACGTGGCGAC TTAGGAGACA TTTACTTCGG AAAGGCACAT	180
	GCCATTCGTC GTCGAGCAGT ACCAACATGG GGTGTCTTTC TAGACGTAGT AAGCTCAAGG	240
	TGGAGGACCA TTAATCGATA TCGGTACACA CGCTTTAGAT TTAACGTTAT GGATGATGGA	300
30	TANTTATGGA ACCAGAATCA GTGATGGGTT TCAACATTCC ATAAATTNAA TAAACAGCCT	360
	CATGCGGGCA AACGCTTGGG GTTTCAGGNG TTCCAGATGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3856:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3856:	
45	CGTTCTCAAT AGAATGATTT AAATCTTCGA TITCTTTATC TAAATGACTA CCAATTAAAT	60
	CTATTTCTTC TATTGTTAAA TCGCTATCTC CATCTTCTTT TATCTCTGGT ATTATTTTTT	120
	CTTCAACTAA GTCACGATAT AATGTTTTTG AATTTTCGTT CAATTTCGAT TCGTGATTIT	180
50	GAATACTTTT CTTCCACACA AATGTATATC TATTGGCATT AGCTTCTACT TTTGTACCAT	240
	CAATAAAAT TGAATTATTA TCAATAAGAT TTTGCTTTAA ACATTGACTA TGGAACTGAA	300

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	TATAAGAAGG nGGTTGGANC nTGAGCGAAC CACANCATCC	400
5	(2) INFORMATION FOR SEQ ID NO: 3857:	
3	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3857:	
15	GGCATACCAT GGTCAAACGC GTGATGATCA AGTAACATCA CATGTTCAAC ATATTTTTGA	60
	AGTTGTGAAT GCACATGGTA AACATTTTTG TGCATTACCA CGTGAAGATG AAGATATTGC	120
	AAAATGGCAG GCACAAGGTG TACAAACATT TATTTTAGGT GATGATCGCG GAAAAATATA	180
20	TCGCCATTTA AGTGCATCTC TAGCGACGTC TAAACAGAAA GGGGATGAAG GCTAATGCGT	240
	ANAGITCANC CIGITATIGA ACANTIANNA GCACANICIC ATCCAGITIG TCATIANNIC	300
	TATGATTTAG TCGGACTGGG ACATCATTTG CANCATATTA CATCGNCCTT GCCGAGTAAT	360
25	TGTCAAATGT ACTATGCAAT G	381
	(2) INFORMATION FOR SEQ ID NO: 3858:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3858:	
•	GCATGAAGCC CCCCTCAAGA TGAGATTTCC CAACTTCGGT TATAAGATCC CTCAAAGATG	60
40	ATGAGGTTAA TAGGTTCGAG GTGGAAGCAT GGTGACATGT GGAAGCTGAC GAATACTAAT	120
	CGATCGAAGA CTTAATCAAA ATAAATGTTT TGCGACAATT CACTTTTACT TACTATCTAG	180
	TTTTGAATGT ATAAATTACA TTCATATGTC TGGTGACTAT AGCAAGGAGG TCACACCTGT	240
45	TCCCATGCCG AACACAGAAG TTAAGCTCCT TAGCGTCGAT GGTAGTCGAA CTTACGTTCC	300
	GCTAGAGTAG AACGTTGCCA GGCAAAAAAT GGATGCCGAT GGAGCCGCAT TGAGACCGCA	360
50	GGnCTnTTTG TTTTTTATGT CTAAAACGTC CAAATTAAnA	400
-	(2) INFORMATION FOR SEQ ID NO: 3859:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 573 base pairs	
<i>55</i> ·	(A) DENGIN: 3/3 DABE PALLS	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3859:	
	GTTTATTAAT CGTGTCATTA GCATCTTTAT AATTGCTTCT AATCGTATTC AAATCACCTA	60
10	ATGTTAAATC TGTTTTAACA TTATTTTGAA TTTCATTCAT GCATCTGAAT CTGAATCGCT	120
	ATCTGAATCT GAGTCGTTGT CTGAGTCCGA nTCGCTATCT GANTCTGAGT CGCTGTCTGA	180
	ATCTGAATCG CTATCCGAGT CTGAGTCGCT ATCTGAGTCT GAGTCGCTAT CTGAATCTGA	240
15	ATCGCTGTCT GAGTCTGAAT CGCTATCTGA GTCTGAATCG CTGTCCGAAT CTGAGTCGCT	300
	ATCTGAATCT GAATCGCTAT CTGAATCTGA GTCGTTGTCT GAGTCCGAAT CGCTATCTGA	360
	ATCTGAGTCG CTATCTGAGT CTGAGTCGCT ATCTGAATCT GAGTCGCTGT CTGAATCTGA	420
20	ATCACTGTCT GAGTCTGAGT CGCTGTCTGA AGTCTGAATC GCTGTCAGAA TCTGAGTCGC	480
	CAACTGAGTC TGAATCTGAA TCACTGGTCT GAGTCCGAAT CGCNATCTGA ATCNGAATCG	540
25	Chaaccgagt CCGaagccgc naatccgaat CTG	5 7 3
	(2) INFORMATION FOR SEQ ID NO: 3860:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3860:	
	GAGCTACACC GCCTTATATA GTTTGTAAAT AATATGGTGG AGACTAGCGG GATCGAACCG	60
40	CTGACCTCCT GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC ATAATAATTA	120
	CAGTATATCG GGAAGACAGG ATTCGAACCT GCGACCCCTT GGTCCCAAAC CAAGTGCTCT	180
	ACCAAGCTGA GCTACTTCCC GTATAATTAA CGCGCCCGAT AGGAGTCGAA CCCATAACCT	240
45	CTTGATCCGT AGTCAAACGC TCTATCCAAT TGAGCTACGG GCGCATATGT TTTTATTGNA	300
	AAATGGTGCC GAGGNACCGG GAATCGGAAC CGGTACGGTT GATNCACTCA CCGGCAGGAT	360
	TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGnGC	400
50	(2) INFORMATION FOR SEQ ID NO: 3861:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(C) SIKAMDEDNESS: COUDTE	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 3861:	
	TGTTGCGACT AAACCATTAC CTATCGCACA TATGACGAAA CCAATGATAA CTGCAATGAC	60
5	ATATTGTGAT GCCAATAATT GAGTCATGCT AATAATAGTG ATGCCGATGA CAGGGAACAA	120
	CGGACCAATG ATGAGCATCA ATTTGCCACC GAAACGTAAT GTTGCTTTTT CACCTAAACG	180
10	AATCATCGCA ACTGCCACAA TGGCATATGG CAATGTAACA nGTCCAGATT GCGCACTGAT	240
	AAACCAAGGT GTGTTTGAGC ATATATGAAA AAGACCACTG TTACGCCTAG ACCGCTATTT	300
	AAAACAAAGT TATTTAAAAA TGCACCAATG GAACGGACGG TTGCGTAATA CTGGAGAAnT	360
15	CAATAAAAGG TACTTCCATG TCCGACGTTC CGATGGATGG	400
	(2) INFORMATION FOR SEQ ID NO: 3862:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	,
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3862:	
	GTGCGCATGG GAACTATCAA GCTTTGAAGA TGTGGTACTA.CATGCGTTGA.ATTAGGGATC	60
30	GGTACTTTAT ATGAAGACGT GCTGCTTCCA TTAAATGAGT GATGCGATTT TGGCATGAAG	120
	GTCACCTTAA ATGTACATTG TTGTAATAAA ATTGCCTATA AATTTTTAGC ACATAAAATA	180
	AGAGGAGCCA ACCATTGTTA GACTATAACA ACGGTTGGCT CTTTAATTGT AAAAAGAAAA	240
35	CCATACGCTA TGCGTATGGT TCAGAAAAGG TCTACCATTG TCACCAAAAA TGCATCTCTA	300
	CGTGCTAGAA TAAATATTGG TCAGCCAACC AAAATAATCC ACACGGGGAG ATGCTATTTA	360
	ATGTCCTCCT GACACCAACA GTTAGCACCA TACAAAATGG	400
40	(2) INFORMATION FOR SEQ ID NO: 3863:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
45	(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3863:	
	TCGGCAAGCC ATTITCTIT GTGTTTACTT TITATTTTGA CGTTTTAGAC ATAAAAAAAA	60

	CIMBERGANC GIAMGITGGC TACCATEGAC GETAMBACC TITETIGACT TOTACAMIC	100
5	GCTTGCTTCT TTCCTCTTCT TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG	240
3	CGCTCTTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG	300
	TGTTTGCTTT TTATTTTGAC GTTTTAGACA TAAAAAAAA AGACCTTGCG GTCTCAAATG	360
10	CGGCTCATCG CATHCATTHT TGCCGGCAAC GTTCTACTCT	400
	(2) INFORMATION FOR SEQ ID NO: 3864:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3864:	
	GTACTATAGA ATTAAAGAAT TATAAAAATA TAATCCTGAT TAGCTTGTTG TCAAGTCATC	60
25	GTTCATAATG AAGATATCAC GTTCAATTGT ATTGTTTGTT TATGGGAAAT GAATTAATGT	120
20	AATAGTATAT GTATGCGGTT ACATAAAAAG CGAACATCTA ACCTGATATT TAAATGAACC	180
	TGACGCTCAA TCAACTAATT TACAACCGTA TTTTTATAAT CAACCATAAA GGAGGAGATA	240
30	GAAAATGAAT AGTGCAAAAT TGATTGATCA CACTTTATTG AAGCCTGAGT CAACACGTAC	300
	GCAAATCGAT CCAAATCATC GATGAAGCGA AGCATACCAT TTTAAATCTG TATGTGTGAA	360
	TCCAACGCAT GTTAAAnGTG CCAGCAGAGC GACTAGCTGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3865:	•
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3865:	
	GCAGCACGTC TTCATATAAA GTACCGATCC CTAATTCAAC GCATGTAGTA CCACATCTTC	60
	,	120
50	GTTCATAAAC TCTTTAATAT AAGTCAATGT TTCAACCATC GCTGGTGGTC TTGGCACATG	180
	TCCTTCTGCC ATTTGATAAA ATGTTTCATG CGTGGCACCT TTTAACTCTA GTTGGTCCGC	240
	TARATAATAC GCATGATGAA TACCAACTTG CTGGTCTTTC CCTCCATGTA CAATTAATAT	300

400

TITTTTCGGA TGACCAATCA TTCTTCGTAG CATGCCTCTT

	(2) INFORMATION FOR SEQ ID NO: 3866:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3866:	
15	AAGTCAATAA CTTTTTTTAT CTTGTCCATT TTATTTTTTA ACCAAAATTT GATTAAAAAA	60
	CTGCCTGGCA ACGTTCTACT CTAGCGGAAC GTAAGTTCGA nCTACCATCG ACGCTAAGGA	1,20
	GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC CTTGCTATAG TCACCAGACA	180
20	TATGAATGTA ATTTATACAT TCAAAACTAG ATAGTAAGTA AAAGTGATTT TGCTTCGCAA	240
	AACATTTATT TTGATTAAGT CTTCGATCGA TTAGTATTCG TCAGCTCCAC ATGTCACCAT	300
	GCTTCCACCT CGGAACCTAT TAACCTCATC ATCTTTGGAG GGGATCTTAT AACCGGAGGT	360
25	TGGGGNAAAT CTCATCTTGA GGGGGGGCTT CCAGGCTTAG	400
	(2) INFORMATION FOR SEQ ID NO: 3867:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3867:	
	CACCTATAAT CGTTTTAATC GATGGGGGGA CGCATAGGGA TAGGCGANGT GNCGATTGGA	60
40	TTGCACGTCT AAGCAGTAAG GCTGAGTATT AGGCAAATCC GGTACTCGTT AAGGCTGAGC	120
	TGTGATGGGG AGAAGACATT GTGTCTTCGA GGTCGTTGAT TTCACACTGC CGAGAAAAGC	180
45	CTCTAGATAG AAAATAGGTG CCCGTACCGC AAACCGACAC AGGTAGTCAA GATGAGAATT	240
	CTAAGGTGAG CGAGCGAACT CTCGTTAAGG AACTCGGCAA AATGACCCCG TAACTTCGGG	300
	AAGAAGGGTG CTCTTTAAGG TTAACGCCCA GAAGAGCCGC ATGAATAGGC CCAAGCGACT	360
60	GTTTANTCAA AACACAGTCT CTGCTAAACC TAAGGATGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3868:	
<i>EE</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3868:	
	TTCTTTGGAA ATAGTAACGT TGAAGTTGTA CTCACTGGTG ATACATTTGA TCACTGTTTA	60
10	GCTGAAGCTT TAACTTATAC AAGTGAACAT CAAATGANCT TTATAGATCC ATTCAATAAT	120
	GTTCATACAA TTTCTGGACA AGGTACGCTT GCTAAAGAAA TGCTAGAACA AGCAAAGTCT	180
	GACAATGITA ACTITGATTA TCTATTTGCC GCAATTGGTG GTGGCGGTTT AATTTCAGGT	240
15	ATTAGTACTT ACTTTAAAAC CTATTCACCT ACCACGNAAA TTATAGGTGT TGAACCTTCA	300
	GGTGCCAAGT AGTATGTGAT GGAATCTGTT GTGAAATATT CAGGTAGTCA CATTGCCCTA	360
	Antcgataaa titgtggacg gtg	383
20	(2) INFORMATION FOR SEQ ID NO: 3869:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3869:	
	CTAAGCTTAA GGGTTGCGCT CGTTGCGGGA CTTAACCCAA CATCTCACGA CACGAGCTGA	60
	CGACAACCAC CACCTGTCAC TTTGTCCCCC GAAGAAGNGC TCTATCTCTA GATTGTCAAA	120
35	GGATGTCAAG ATTTGGTAAG GTTCTTCGCG TTGCTTCGAA TTAAACCACA TGCTCCACCG	180
	nttgtgcggt tccccgtcaa ttcctttgag tttcaacctt gcggtcgtac tccccaggcg	240
40	GAGTGCTTAA TGCGTTAnTG CCAGCACTAA GGGGCGGAAA CCCCCTAACA CTTAGCACTC	300
40	ATCGTTTACG GCGTGGACTA CCAGGGTATC TAATCCTGTT TGATCCCCAC GGTTTCGCAC	360
	ATCAGCGTCA TTTACAGACC AGAAAGTCGn CTTCGGCAAT	400
45	(2) INFORMATION FOR SEQ ID NO: 3870:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3870:

	GTGTGCCTTC TGATATGCTA TGTATTCACA TATCGATAAC ATGACATAAC TCATGCTGGG	120
	TTTCCCCATT CGGAAATCTC TGGATCAAAG CTTACTTACA GCTCCCCAAA GCATATCGTC	180
5	GTTAGTAACG TCCTTCATCG GCTTCTAGTG CCAAGGCATC CACCGTGCGC CCTTAATAAC	240
	TTAATCTATG TITCCATCCT ACAGGAAACG CGTTATTAAT CTTGTGAGTG TTCTTTCGAA	300
10	CATGAGCGAT TATTTCTTAT GAATTCAAGC TTATTTAAAA CTCTTTATTC ACTCGGTTTT	360
10	GCTTGGTAAA AGCnnGn	377
	(2) INFORMATION FOR SEQ ID NO: 3871:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3871:	
	ATAACGTTGC CCCTCCCATG TATATCCTAC CCAAACATGA CCATCTTGTA ACATCACTTC	60
25	TGTATAATCA CAATACCCAC CAGGTTGGAA CTGATAACCC ACTGGACAAG ATAAGAATGG	120
	CCCCACTTTT CTTACTGTGA TTGGTTGATT GCCGTTTGTG AATCTAGCAC TTTCTTCCAT	180
30	GTAGTAAGTA CCATATTTAT TACGTTTCCA TGCACTTGCA ACTGGTTTAA CTGTATTACT	240
	TGAAGCGCTT GACTCATTAG AGACAGTGGC AACCGGTATT TTACCATCCA TGTACGCCCT	300
	AAATCTGCTT GATAAAGTAG TCTTTTAAGT TGCAACCGCT TGTCTTCTGG GCAATAGACC	360
35	GCGAGTTACN GGGGTCCAAA CCCNTGGTGT AAAANCGAAC	400
	(2) INFORMATION FOR SEQ ID NO: 3872:	
4 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3872:	
	CGCTACACTA CGAGACCATT AGTAAAACGC AGGAAGAGGG ATTCGAACCC CCGCGAGCCG	60
50	TTAAGCCCCT GTCGGTTTTC AAGACCGATC CCTTCAGCCG GACTTGGGTA TTCCTCCAAA	120
	ATTATATGGA CCTTGCAGGA CTCGAACCTG CGACCGAACG TTATGAGCCG TTAGCTCTAA	180
	CCAACTGAGC TAAAGGTCCT AAATATAATT TTACAACTAA TAAATAGTGG CGGTGGAGGG	240

	GCCTTATATA GTTTGTAAAT AATATGGTGG AGACTAGCGG GGATCGAACC GCTGTACCTC	360
	CTGCGTGCAA ACGGGCGCTC TTCCCAGCTG nAGCTAAAGC	400
5	(2) INFORMATION FOR SEQ ID NO: 3873:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 584 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3873:	
	ACAGCTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA	60
	CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCTCG	120
20	GTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTCTCGTT TCGTCAGATT	180
	CAANNGTTTT CALTCGCCAA GCCATTTTTC TTTGTGTTTA CTTTTTATTT TGACGTTTTA	240
	GGCATAAAAA AAAGAGACCT TGCGGTCTCA ANTGCGGCTC ATCGCATCCA TTTTTTGCCT	300
25	GGCAACGTTC TACTCTAGCG GAANTAAGTT GGGCTACCAT CGTCGCTAAA GACCTTTCTT	360
	GACTTGTGAC AATCGCTTGC TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC	420
30	TACTAAACTC GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA	480
•	GCCATTTTC TTTGTGTTTA CTTnTnATTT TGACGTTTTA GACATAAAAA AAAGAGACCT	540
	TGCGGTCCAA ATGCGGGCTC ATCGCATCCA TTTTTTGCCT GGGC	584
35	(2) INFORMATION FOR SEQ ID NO: 3874:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3874:	
45	TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAnTTGG CTACCATCGT CGCTAAAGAC	60
	CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	120
50	TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT	180
50	TCGCCAAGCC ATTTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAA	240
	GAGACCTTGC GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGCA ACGTTCTACT	300
55		

	GCTTGCTTCT TTCCTCTTCT TCGGCTCTCG CTTACTCATT	400
	(2) INFORMATION FOR SEQ ID NO: 3875:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3875:	
45	TCTGCTAATT TAAAAATGAT ATTTTCTATC TTTTCTTTAT TATTAACGTC TAATGCACTG	60
15	GTCGATTCAT CTAATAAAAG AATATCCGGT GTATACATCA GTTGGCGCGC TATAGCAATT	. 120
	CTTTGCCGCT CACCACCGA CATATTTTCC ACTTCCGAAC TTAATTGATA ATGTCCCAAA	180
20	CCGACATCTT TAATTAATTG CTTTGCACGT TTTCTATCAA ATTTATCATT ACGTGCAAGT	240
	GATGGGAATA TCATGTTATC TTCAATCGGT CACCAAACAA GTCACTTTGC TGCATCAAAT	300
	AACTGATTCG TTGACGCCAA TTCTTCCGGG GCATAATnCA TATAGGGGTT ACCTTAAAAA	360
25	TAAAGGTCCT CCACTAGTTG GCCTANACNA ATTACATAAN	400
	(2) INFORMATION FOR SEQ ID NO: 3876:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3876:	
	AGATAGACTT TCTGGTGAAG ATACACGTGA AGGTATGACA GCAATTATAT CTATCAAACA	60
	TGGTGATCCT CAATTCGAAG GTCAAACGAA GACAAAATTA GGTAATTCTG AAGTGCGTCA	120
40	AGTTGTAGAT AAATTATTCT CAGAGCACTT TGAACGATTT TTATATGAAA ATCCACAAGT	180
	CGCACGTACA GTGGTTGAAA AAGGTATTAT GGCGGCACTG CACGTTTTGC TGCGAAAAAA	240
45	GCGCGTGAAG TAACACGTCC GTAAATCAGC GTTAGATGTA GCAAGCCTTC CAGGTAAATT	300
	AGCCGATTGC TCTAGTAAAA GTCCTGAAGA ATGTGAGATT TCTTAGTCGA AGGGGCTCTG	360
	CCGGGGGGTC TACAAAATCT GGTCGTGACT CTAGACCGCA	400
50	(2) INFORMATION FOR SEQ ID NO: 3877:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3877:	
	ACCAATTTCT CCTTTGTATC CGCCATCTTT AAATAATTTT ACTGCTCTAG CATGAGCCAC	60
10	CATCATGTTA TGTGATTGGA ATACTTTTTC AAAATCATAT TTAATACCTG GAGGGAATTT	120
	ACCTACTAAA TATTGACCAT CACCAATAGG TCCAATTTCA TTGAATGTAG TCCAATATTT	180
	TACTTCTGGG AATTCTTTAA AACAATATTC AGCATAATCT ACAAAGTAGT CAATCGTTTT	240
15	ACGNTTTAGA AAATCGCCAT CTTTGGTGGT ACACTTCTGG GNGTATCAAA ATGNTGCAAT	300
	GTTACAAATG GTTCAACATG ACGGTTTATG GnCACTCTGC AAATAACCTT ATGGTAATAC	360
20	TCAACACCTT AGGGGTTAAC TTCGGCCATA TCCCTTTTGG	400
20	(2) INFORMATION FOR SEQ ID NO: 3878:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3878:	
	ATTAAAGCAG TTTCTGGATC TGGTAAAAAT GGTCGTATTA CAAAAGAAGA TGTAGATGCA	60
45	TACTTAAATG GTGGTGCACC AACAGCTTCA AATGAATCAG CTGCTTCACT AACAAGTGAA	120
35	GAAGTTGCTG AAACTCCTGC AGCACCTGCn GCAGTTAACA TTAGAAGGCG ACTTCCCAGA	180
	AACAACTGGA AAAAATCCCT GGCTATGCGT AGAGCAATTG CGAhAACATG GGTTTAACTC	. 240
40	TAAGCATACT GCACCTCATG TAACATTAAT GGATGAAATT GGATGTTCAA GCATTATGGG	300
	GATCACCGTA AGAAATTTAA AGAAATCGCG GCTGAACAAG GTACTAAGTT AACATTCTTA	360
	CCTTATGTTG TTAANGCACT GTTTTCGGCA TGGNAAAAAT	400
45	(2) INFORMATION FOR SEQ ID NO: 3879:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3879:	

	TTGTGTTTAC TTTTTATTTT GACGTTTTAG ACATAAAAAA AAGAGACCTT GCGGTCTCAA	120
	TGCGGCTCAT CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTG	180
5	GCTACCATCG ACGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT CTTTCCTCTT	240
	CTTCGGCTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT TCTCGTTTCG	300
	TCAGATTCAA ACGTTTCACT TCGCAAGCCA TTTTTCTTTG TGTTGCnTTT ATTTGACGTT	360
10	TAGACATAAA ANAAGANCCT TGCGGNCTCA ATGCGGCCAT	400
	(2) INFORMATION FOR SEQ ID NO: 3880:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3880:	
	TAGGTGTAAA TCCTGCGATT CGATCTGGAC CATATTTTTT TATTGTATAC AGTAATTGTG	60
25	CTGCGATTAT CTCTGTAACG TCTTTCCAAT TTGAACGCAC GTGCCCTCCC ATACCTCGGG	120
	CTTGCTTATA TTGTTTGGCT TTGTCTTCAT TTTCAACAAT AGACGCCCAT GCAGCAACGC	180
30	GATTACCATT GTTTTCTTCT AATGCTTCAG TCCATAAATC CCAGAGTTTT CCACGAATAT	240
	ATGGATATTG ATTCGAAGCG GACTGTATCA TACCAAGAGA ATGACGCACT CGTGGACATC	300
	CTCTCGGTCA TATTCAGGCA TATCCGGACA CAACTTGGAT AGCAGTTGTG ATTTCCCAGG	360
35	AATCACACCA TTTCACAAAC TTCCAGACAT GGCTGACAGT	400
	(2) INFORMATION FOR SEQ ID NO: 3881:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3881:	
	TGAGTAGCGA AAGACGGGTG AGAATCCCGT CCACCGATTG ACTAAGGTTT CCAGAGGAAG	60
	GCTCGTCCGC TCTGGGTTAG TCGGGTCCTA AGCTGAGGCC GACAGNGTAG GCGATGGATA	120
50	ACAGGTTGAT ATTCCTGTAC CACCTATAAT CGTTTTAATC GATGGGGGGA CGCAGTAGGA	180
	TRACCORDOR TRACCATTICAL TITICALCETCT ARGCAGIANG GCTGAGTATT AGGCAAATCC	240

	TCACACTGCC GAGAAAAGCC TCTAAGATAA GAAAATTAGG TGCCCGTACC GCAAACCGAC	360
	ACAGGTAGTC CAAGATGGAG ANTCTNAAGG TGGAGCGAGC	400
5	(2) INFORMATION FOR SEQ ID NO: 3882:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 609 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3882:	
	CATCCCCAAC TTGCACATTA TTGTAAGCTG ACTTTTCGTC ACTTCTGTGT TGGGGCCCTC	60
	ACCCCAACTC GCATTGCCTG TAGAATTTCT TTTCGAAATT CTCTGTGTTG GGGCCCCTGA	120
20	CTAGAATTGA AAAAAGCTTG TTACAAGCGC ATTTTCGTTC AGTCAACTAC TGCCAATATA	180
	ACTICGIAGA GCATAGAATA ITGATITATG ICCCAGCCIG AGITAATITI CIATAAAAGI	240
	ATATTTAATT TGCGTTTATA CCGTCAAACT TCACTTTAGC TTTGTCAAAC CCCTTTCTAT	300
25	TAAGTTTTCA GAAATAAACC TATCTTAAAA TATAAAAAAA TCGAGAATTC GTAGTTTAAT	360
	AACGAAATTC TCGTTCTTAT CCTTTTGaAT aTACTCAATT TTCCACAAAA ACAAACAAGT	420
30	AGTATATCTG TTCTAGCTAC TAGAATGACA TACTACTTGT TATTAAAATA CTTAACTAAA	480
	CTTTATTAGT TATCTTTnTT CTCTATATTT CTACGTGGAC TGACGCTTTT CANGAATGTC	540
	AGATTCATAA TCTTCTTGGT TGGACTCCTG GATATATTCT TGGTAAGCGG ATGGTTTATT	600
35	CGGAGTCAA	609
•	(2) INFORMATION FOR SEQ ID NO: 3883:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3883:	
	ATATATTGGC GGACATAACG ATGTACTAGC AGGTGTCGTA ACCGTCAAAG ATGAATCACT	60
50	CGCGCAACAG TTGTTTGATT TTCACAACAT GACTGGCGCA ACACTTTCAC CAATAGATAG	120
	TTATTTGTTG TTACGTGGAC TTAAAACTTT GCATTTACGC ATTGAGCGTG CGCAATCAAA	180
	CGCTAGAAAA CTTGCTAAAA AATGTCAGTC ACTTCAAGCA ATTGACGAAt ACTATATAGC	240
55		

	GAAAATTTAG ACATTTGCAT TTTTGCAGAA AGTTTAGGAG GTACKGAAAC ATTAGTGACC	360
	TTCCCTTACA CCCAAACACL GTTGATATGC CAGT	394
6	(2) INFORMATION FOR SEQ ID NO: 3884:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3884:	
	CGATTAATGA ATTAACAGAA TACGGACCAG AAACGATAAC ACCAGGTCAT CGAGACGAAT	60
	TTGATCCGAA GTTACCAACA GGAGAGAAGA AGGAAGTTCC AGGTAAACCA GGAATTAAGA	120
20	ATCCAGAAAC AGGAGACGTG TTAGACCACC GGTCGATTAG CGTAACAAAA TATGGACCTG	180
	TAAAAGGAGA CTCGATTGTA GAAAAAGAAG AAATTCCATT CAAGAAAGAA CGTAAATTTA	240
	ATCCTGATTT AGCACCAGGG ACAGAAAAG TAACAAGAGA AGGACAAAAA GGTGAGAAGA	300
25	CAATAACGAC GCCAACACTA AAAAnTCCAT TAACTGGAGA ATTATTAGTA AAGGTGATCG	360
	AAAGAGGAAT CACAAAAGTT CCnTTTATGA TTAACAGATA	400
30	(2) INFORMATION FOR SEQ ID NO: 3885:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3885:	
40	TGAGCGGATT ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG	60
	CTTGGTAAAA TCTATATTTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGGC	120
45	CTAAGTGGAC TCGAACCACC GACCTCACGC TTATCAGGCG TGCGCTCTAA CCAGCTGAGC	180
	TATAGGCCCA TTTTTTTGAA TGTTAAATAA ACATTCAAAA CTGGAATACA ATATGTCACG	240
	TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA GGTGATCCAG	300
50	CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG TCCCACCTTC	360
	GACGCTAGC TCCCAAAAGG GTACTNCCAN CGGGNTTCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3886:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3886:	
10	TACGGTAGGT GGCAAGCAGT TATCChGGAA TTATTGGGCG TAAAGCGCGC GTAGGGGTTT	60
	TTTTAAGTCT GATGTGAAAG CCCACGGCTC AACCGTGGAG GGTCATTGGA AACTGGAATn	120
	CTTGAGTGCA GAAGAGGAAA GTGGAATTCC ATGTGTAGCG GTGAAATGCG CAGAGATATG	180
15	GAGGAACACC AGTGGCGAAG GCGACTTTCT GGTCTGTAAC TGACGCTGAT GTGCGAAACG	240
,-	TGGGGATCAA ACAGGATTAG ATACCCTGGT AGTCCACGCC GTAAACGATG AGTGCTAAGT	300
20	GTTAGGGGGT TTCCGCCCCT TTAGTGCTGC AGCTAACGCA TTTAAGCACT CCGCCTGGGG	360
	GAGTTACGAC CGCAAAGTTT GGAAACTCAA AGGGAATTGG	400
	(2) INFORMATION FOR SEQ ID NO: 3887:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3887:	
35	ATTITITAAT TITCATGCAA ATTITITAAGC ACCATATAAT GCCTACCAAA TITCAATAAT	60
	CTTTGTTGCC GTTTAAATAA TGTGAATGTC AATAAATTCT CCAAACTAGT CGAAAATAAA	120
	GGGAGTNGGA CATAAATCCC TAAAAAAACA GCAGTAAGAT AATTTTCAAT TAGAAAATAT	180
40	CTTACTGCTG TTCTCTATTT ATACAATACT TCGTATTGAA TGGCTTCGCT TTCCNAGGGT	240
	GCCGTCTCAG CCTCGGTCTT CGACTGGCAC TGCTCCCTCA GGAGTCTCGC CATTAATACT	300
45	ACGTATTAAC ATGGAATTTT ACTTTTACAT ACTTTAAAAA ATAAGNCACT TTGGCCAACT	360
	TACACTACCA TAGGAACCCT GGTAGGAATC CCCCAAATGn	400
	(2) INFORMATION FOR SEQ ID NO: 3888:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATACGACAAT CACAGCAATA ATAATTGCTT TAGAAAGTCG TGCCGAACTG GAACTTACAA	60
	GTCTAGTTCG AACACACACT GATGTGAGTG GTTTTATTTA TTTTAAACAT GAACAATCAG	120
5	ATAAGTTACT AGCATTAGCA AATATTATTA AATCAAAGGG CTTCGATTCA TAAAATTAAA	180
	ACAATGATTA AAATTAGACG TGTAAATGTT AAATTCTAAA ACGGAAATAA CCACCATCCC	240
10	ATTAAACCAC TTTMATMGTT CAATCACTAT ATTTCACACA GCTTCATTAA TAAAACGACT	300
	TGCTTCAACC CGCTTCAACT TCAACTGGCT TCAACTTCAG CCTACTTCAT TCAATnACAA	360
	AACGAATCCG CTTCATCCAA AATCANCCAT TCTAACGCAC	400
15	(2) INFORMATION FOR SEQ ID NO: 3889:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3889:	
20	CCATGCNAGA CGCATACATT GTAGCTTATG GGCGTTCAGC GCAGCGAAMG AAAGCAAGGC	60
	GCATTATTCC ACGAAAGACC TGATGATGTC GCAGCCAAAG TATTACAAGG CGTATTGAAA	120
30	CGTATTGACG GAAAATTCAA TAAGAATATG ATTGAAGATG TCATTGTTGG TACGGCTTTT	180
	CCAGAAGGAT TACAAGGCCA AAACATTGCA CGAACGATTG CATTGCGTGC GGGATTATCT	240
	GACACGGTAC CGGGTCAAAC AGTGAATCGC TACTGCTCAT CAGGATTACA AACCATCGCG	300
35	ATTGCAGCCA ATCAAATTAT GGCTGGTCAA GGAGATATAC TTGTAGCTGG TGGCGTTGAA	360
	TTGATGAGTG CCGTACCAAT GGGTGGCAAC GAGCCCACAA ACAATCCAAC CTTWACAATA	420
40	tGaTGATATA GGTGCGTCCA TATNCCTATG GGTTTNAANT GCTGGAAAAT GTTAGCCTNC	480
	CCAAT	485
	(2) INFORMATION FOR SEQ ID NO: 3890:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3890:	
	AGGCAGATGC TCTCCCAGCT GAGCTAATTC TCCAAAATAA TGACTCCTAC GGGACTCGAA	60
55	·	

	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC	180
	TGTGGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGAANTGAAT TCGGACTACC	240
5	ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA CCTCCTTGCT	300
	ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTG AAGTAAAAGT	360
10	GGTTFTGCnT CGCAAAACAT TTATTTTGn	389
	(2) INFORMATION FOR SEQ ID NO: 3891:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3891:	
	CAGATGITTA AGTCCTGTGC GTCTGCCAGT TCCGCCACCC CGGCACTATA AAAATGGAGC	60
25	AGAAGACGGG ATTCGAACCC GCGACCCCAA CCTTGGCAAG GTTGTATTCT ACCGCTGAAC	120
25	TACTTCTGCA TATGCGGGTG AAGGGAGTCG AACCCCCACG CCGTAAGCTn AGATCCTAAG	180
	TCTAGTGCGT CTGCCAATTC CGCCACACCC GCAAATGGTG AGCCATAGAG GATTCGAACC	240
30	TCTGACCCTC TGATTAAAAG TCAGATGCTC TACCAACTGG AGCTAATGGC TCTTCCATGG	300
	TGCCGGCCAG AGGACTTGAA CCCCCAACCT ACTGGATTTA CAAGTCAGTT TGCTCTACCA	360
	ATTGGAGCTA GGGCCGGCA ATATGGTAAG AATAAATTGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3892:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3892:	
	CTCTCGGTGG TCGTGCTACA ACTGGTAAAA ATGTACATGT AGGGGCTGGC GCAGTATTAG	60
	CAGGTGTGAT TGAACCCCCT AGTGCTTCAC CGGTTATAAT CGAGGATGAT GTATTAATCG	120
50	GTGCAAATGC AGTTATTTTA GAAGGTGTAC GTGTTGGTAA AGGTGCTATT GTTGCAGCTG	180
	GCGCGATTGT GACACAAGAT GTACCAGCTG GTGCAGTTGT TGCTGGTACA CCTGCAAAAG	240
	TGATTAAGCA AGCTTCTGAA GTACAAGATA CTAAAAAAGA GATTGTAGCA GCATTAAGAA	300
55		

	CCACCNTAAT GGTNTAGCAT TGAATAAACT TATGNNCCCC	400
	(2) INFORMATION FOR SEQ ID NO: 3893:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Topologi: Timeal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3893:	•
15	GAATGTAGTT GTGGTAAATA CAAACGTGTT CGCTACAAAG GCATGGTCTG TGACAGATGT	60
	GGAGTTGAAG TAACTAAATC TAAAGTACGT CGTGAAAGAA TGGGTCACAT TGAACTTGCT	120
	GCTCCAGTTT CTCACATTTG GTATTTCAAA GGTATACCAA GTCGTATGGG TATTATTACT	180
20	TGACATGTCA CCAAGAGCAT TAGAAGAAGT TATTTACTTT GCTTCTTATG TGTTGTAGAT	240
	CCAGGTCCAA CTGGTTTAGA AAAGAAAACT TTATTATCTG AAGCTGAATT CAGAGATTAT	300
	TATGATGAAA TACCCAGGTC AATTCGTTGC CAAAAATGGG TGCCAGAAGG TCATTAAAAG	360
25	ATTTACTTGA AGNINGATTGA THCTTGACGA GGGAACTTHA	400
	(2) INFORMATION FOR SEQ ID NO: 3894:	
30 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3894:	
	CACGTGAAGT TAGAGATACT TCATTACGTG TACCTCACGG CGCTGGCGGT ATCGTTCTTG	60
40	ATGTAAAAGT ATTCAATCGT GAAGAAGGCG ACGATACATT ATCACCTGGT GTAAACCAAT	120
	TAGTACGTGT ATATATCGTT CAAAAACGTA AAATTCATGT TGGTGATAAG ATGTGTGGTC	180
	GACATGGTAA CAAAGGTGTC ATTTCTAAGA TTGTTCCTGA AGAAGATATG CCTTACTTAC	240
45	CAGATGGACG TCCGATCGAT ATCATGTTAA ATCCTCTTGG TGTACCATCT CGTATGAACA	300
	TCGGACAAGT ATTAGAGCTA CACTTAGGTA TGGCTGCTAA AAATCTTGGT ATTCACGTTG	360
60	CATCACCAGT ATTTGaCGGT GCAAACGTTG ACGATGTATG GTCAnCAATT GAAGAAGCTG	420
	GTATGGCTCG TGATGGTAAA ACTGTACTTT ATCGATGGAC GTACCAGGTG ACCCNTCCGA	480
	TAACC	485

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 507 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3895:	
10	GAACAACATA CCTTTGTTTG TTGATTCTTC TCCACCTGTT TCAAGTAGTT CAGATTTCTT	60
	AGATTGTGGT TTTTTAGTTG GTGCCACTGC TTTAACCTTT TCATTGATTT CAATAACAGG	120
15	TGTTACTACT TTACCTTGTT CCACTGGTTT AGAAGGCTTT TTAGGTTCTT CTTTGGCAGG	180
	TGGTACTGGT TTACCANGTT CAGCTGGTAC CTCTGGTGTT GGCGGTGTTG GAGTTTCTGG	240
	CTCACTCGGC ACTTCTGGTG TCGGTGGTGT TGGTGTTTCC GGCTCACTTG GTACTTCTGG	300
20	TGTTGGTGGC GTTGGTGTTT CCGGCTCACT TGGTACTTCT GGTGTCGGTG GCGTTGGLGG	360
	CACGATIGGA GGTGTTGTAT CTTCTTCAAT CGTTTGTTGA CCTTCATTTT GGGCCGCTTA	420
	CTTTTGGGAA GTGTATCTTC TTCAAAGTCA ACACTAATGT GGTCCACCGG AATTGATAAC	480
25	TGGGGTTAAC CTTAAATTGG AACCTCC	507
	(2) INFORMATION FOR SEQ ID NO: 3896:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3896:	
•	CTAGCGGAAG TAATTGGCTA CCATCGTCGC TAAAGACCTT NGGNGACTTG TGACAATCGC	60 120
40	TTGCTTCTTT CCTCTCCTTC GGCTCTCGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG	180
	CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGGCATA AAAAAAAGAG ACCTTGCGGT CTCAATGCGG	240
45	CTCATCGCAT CCATTTTTG CCTGGCAACG TTCTACTCTA GCGGAANGTA ATTGGGCTAC	300
		360
	CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG	400
50	GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC (2) INFORMATION FOR SEO ID NO: 3897:	*00
	(6)	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: d uble (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3897:	
	TTGAAGAAGA TCGCGATGAC TATACAATCA ATATCGAGTA TAATACCGAT TTATATCACT	60
10	CAGAAACAGT TCGTCACATG GGTAATCAAT GTATGATTAT GATTGATTAT ATTTTGAAGC	120
	ATCAAGATAC ACTACAAATT TGTGATATAC CAAACGGCAC GAGGAACTTC TAAATTGGGT	180
	CAATACGCAT GTTAACGATC GAATGCTTAA TGTCCCGGGA AATAAATCTA TCATAAGTTA	240
15	CTTTAATGAA GTTGTCTCAC GACAAGGTAA TCATGTTGCG CTAGTCATGA ATGANTTGAC	300
	AATGACGTAT GAAACATTAC GCAACTATGT GGGATGCCAT TGCGCACATG CTCCTATCAA	360
•	ATGGTGTGGG CAATGGTCAA CGGGTTGCCT TGGTGTACAG	400
20	(2) INFORMATION FOR SEQ ID NO: 3898:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3898:	
	GAAATCAGTA TTAAAGCAGT TAATCCACAA GGGAAAGTGG TTAATACAGT TGGCTCTGGT	60
	GATAGTACAG TTGCAGGCAT GGTGGCTGGA ATTGCTTCAG GTTTAACGAT TGAAAAAGCA	120
35	TTCCAACAAG CAGTCGCATG CGGTACTGCC ACGGCATTTG ATGAGGACTT AGCAACACGG	180
	GACGCTATAG AAAAAATAAA ATCACAAGTT ACGATTAGCG TACTTGATGG GGAGTGAAAA	240
40	TAATGAGAGT AACAGAGTTA TTAACAAAAG ATACAATAGC AATGGATTTA ATGGCAAATG	300
	ACAAAAATGG TGTTATTGAT GAGTTAGTAA ATCAATTAGA CCAAGCAGGT AAATTAAGTG	360
	ATGTCGCGTC ATTTAANGGA AGCGATTCAC CATCGNGATC	400
45	(2) INFORMATION FOR SEQ ID NO: 3899:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3899:

	CTAGCGGAAC GTAAGTTAGC TACCATCCTC GCTAAGAACC TTTCTTGACT TGTGACAATC	120
	GCTTGCTTCT TTCCTCTCCT TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG	180
5	CGCTCTTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG	240
	TGTTTACTTT TTATTTTGAC GTTTTAGACA TAAAAAAAGA nACCTCACGG TCTCAACTTG	300
10	CCTGGCAACG TTCTACTTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC ThAAAGACCT	360
	TTCTTGGACT TGTGGACAAT CGGCTTGGCA nTCTTTnCTC	400
	(2) INFORMATION FOR SEQ ID NO: 3900:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3900:	
	TGCACGCGTA TCTGATGGTT GCTCAGTTGC ATCTACCCAA GGTAACCATT CCCTAAGTGA	60
25	ATTTCTTGAA CGATTGACTA AATTGAAAAG CGCTTCTGTG TCATGAGCTT CTAAAATTTT	120
•	TAATGTTATT TGTTCATTCA CTTTCATTCC AAACATACCA TCACATCCTC ATTCATTTTT	180
30	CATATAATTC TGTAAATTAT CATTATAATA ACATATTAAT GTTACGCATT GTATCTTAAA	240
	TTTGTTGTCC TTCCCCAACT TGCATTGCTT GTAGAATTTC TTTTCGAAAT TCTCTATGTT	300
3.1	GGGGCCCGCn AACTTGCATT GTCTGTAGAA ATTACGGACC CAATTTCTCT AGGTGGGGCC	360
35 .	CATCCCCAAC TTGCACATTA ATnGCAAGCn GACTTTCCGT	400
	(2) INFORMATION FOR SEQ ID NO: 3901:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3901:	
	TACTGCTGTT CACTTTTTAT AATACTTCTG AATGTCTTCA CTTATACTTC TAGTCACAGA	60
50	TTTAAATAAT CAAAAGTGCA CATTATTAAA ATATCAATTT CACACTCAAT GCGGCTCATC	120
50	GCATTCATTT CTTGTCTCAA CGTTCTACTC TAGCGGAAGT AAGTTAGCTA CCATCCTCGC	180
	TAAGAACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCCTTC GGCTCTCGCT	240

	TTTCACTTCG CCAAGCCATT TTTCCTTGGT GGTTTACCTT TTAATTTGGA CGGTTTAGAC	360
	ATHAAAAAAG GGGACCTCAC GGGCCCAACT TGGCCTGGGC	400
5	(2) INFORMATION FOR SEQ ID NO: 3902:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3902:	
	TTATTTTGAC GTTTTAGACA TAAAAAAAGA GACCTCACGG TCTCAACTTG CCTGGCAACG	60
	TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	120
20	GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA	180
	CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT	240
	TTCTTTGTGT TTACTTTTTA TTTTGACGTT TTAGGCATAA AAAAAAGAGA CCTTGCGGTC	300
25	TCAATGCGGC TCATCGCATC CATTTTTTGC CTGGGCAACG TTCTACTCTA GCGGGAACGT	360
	AAGTTGGGCT ACCANCGGCG GCTAAAGACC TTTCCTGGAC	400
30	(2) INFORMATION FOR SEQ ID NO: 3903:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3903:	-
40	TTGTTATAAC GAAAACCATT AATAGATTIT TATTTGGTGA TTTCAAATCA TGAGACTGGG	60
•	ACAGAAATGA TGTTTTCATA AAAATTATTT CGTTGTTCCA CTCTCATGAT TTTTTTGATG	120
	AAACATAATT ACATGATTGA TTGCATCATT TTGTTAAACA AGTGATTGCA AACCTGCCAT	180
45	TTCACACTGA AAATTTACAT AATAAGTGAC GATATTTTAC AAGTCATATA CAAATAACAT	240
	ATATTGTTAA ATAATTTTAC CTAATCTTAA CATTAAATTT ACAATTATAA GCGATAATCT	300
50	AAATATAAAG CTTATTTGAG GTGAAATAAT GGAAATGTCG GTTACAGAAG TCATTTTCTC	360
	CTTTTTAGGT GGGTTTAGGG AATTTCCnTT ACGGCCTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3904:	

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5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3904:	
10	CATAAGACAT AATCGCTAGT GTTCGAAAGA GCACTCACAA GATTAATAAC GCGTTTCCTG	60
	TAGGATGGAA ACATAGATTA AGTTATTAAG GGCGCACGGT GGATGCCTTG GCACTAGAAG	120
	CCGATGAAGG ACGTTACTAA CGACGATATG CTTTGGGGAG CTGTAAGTAA GCTTTGATCC	180
15	AGAGATTTCC GAATGGGGAA ACCCAGCATG AGTTATGTCA TGTTATCGAT ATGTGAATAC	240
	ATAGCATATC AGAAGGCACA CCCGGAGANC TGAAACATCT TAGTACCCGG AGGAAGAGAA	300
	AGAAAATTCG ATTCCCTTAG TAGCGGCGAG CGAAACGGGA AGAGCCCAAA CCARCAAGCT	360
20	TGCTTGTTGG GGTTGTAGGG CACTCTATAC GGAGTTACAA	400
	(2) INFORMATION FOR SEQ ID NO: 3905:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3905:	
	AACTAACATT ACAACATGCA TGTGAACAAT TAAAAACATA TTTTAAGTAG GTGAATGAAA	60
35	TGGTAAATGA ACAAATCATT GATATTTCAG GTCCGTTAAA GGGCGAAATA GAAGTGCCGG	120
	GCGATAAGTC AATGACACAC CGTGCAATCA TGTTGGCGTC GCTAGCTGAA GGTGTATCTA	180
40	CTATATATAA GCCACTACTT GGCGAATCG TCGTACGATG GACATTTTCC GACTGTTAGG	240
40	TGTAGAAATC AAAGAAGATG ATGAAAAATT AGTTGTGACT TCCCCAGGAT ATCAATCTTT	300
	TAACACGCCA CATCAAGTnT TGTnTACAGG TAATTCCGGG TACGACAACA CGATTGATAG	360
45	TTTGGTTAAT GGGTTAAGTA TTGAAAGTGT TTTGTCCGG	399
	(2) INFORMATION FOR SEQ ID NO: 3906:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTCTTTAAAA ATAAACGCCT ATnCGTTATC GGTGGTGGTG ATTCAGCAGT AGAAGAGGGA	60
_	ACATTCTAAA CTAAATTTGC TGACAAAGTA ACAATCGTTC ACCGTCGTGA TGAGTTACGT	120
5	GCACAGCGTA TTTTACAAGA TAGAGCATTC AAAAATGATA AAATCGACTT TATTTGGAGT	180
	CATACTITGA AATCAATTAA TGAAAAAGAC GGCAAAGTGG GTTCTGTGAC ATTAACGTCT	240
10	ACAAAAGATG GTTCAGAAGA AACACACGAG GCTGATGGTG TATTCATCTA TATTGGTATG	300
	AACCATTAAC AGCGCCATTT AANGCTTAGG TATTACNAAT GATGTTGGTT ATATTGTGAC	360
	AAAGGTGGAT TGGCCAC	377
15	(2) INFORMATION FOR SEQ ID NO: 3907:	
20	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 502 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3907:	
25	AATTAGGTAA TTCAAAATAA TATTAGCGCG GGATGGAGCA GTTCGGTAGC TCGTCGGGCT	60
	CATAACCCGA AGTCGGLGGT TCAAATCCGC CTCCCGCAAT ACATAGTTTT TAATTTAATA	120
30	GGTCTCGTAG TGTAGCGrTT AACACGCCTG CCTGTCACGC AGAGATCGCG GGTTCGATTC	180
00	CCGTCGAGAC CGCCATTATT ATTACCATTA CGGTTCAGTA GCTCAGTTGG TAGAGCAATG	240
	GATTGAAGCT CCATGTGTCG GCAGTTCGAC TCTGTCCTGA ACCATTCTTA ATTCATGGCG	300
35	GTTGTGGTGA AGTGGTTAAC ACATCGGATT GTGGTTCCGA CATTCGAGGG TTCGATCCCC	360
	TTCAGCCGCC CCATAATCGT TTACATTAGC GGGTGTAGTT TAATGGCAAA ACCTCAGCCT	420
	TCCAAGCTGA TGTTGTGGGk TtCGTTTCCC AtCAmCCnGy TCCaTaATTT CNAANAATTC	480
40	CAACAGTAGC CGCAAGTnGG TA	502
	(2) INFORMATION FOR SEQ ID NO: 3908:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3908:	
	AAAAAATGCA TCTCTACGTG CTAGAATAAA TATTGGTCAG CCAACCAAAA TAATCAACAC	60

	TRAGTATCAT ATTGTCTTTG CACCTRARTA CAGRAGACAA GIGATATATG	100
	AAAAGATATA GGGATTATAT TGCGTCAATT ATGTGAAAGA AAAGGTGTAG AGATAATTGA	240
5	AGCAGAGGCA TGTAAAGATC ATATCCATAT GTTAGTTAGT ATACCACCCA AACTTGGGGG	300
	TATCATCATT TGTTGGGCTA TTTAAAAGGG AAAAAGTAGT TTAATGGATA TTTGGATAGA	360
10	CATGGCTAAC TTAAAGTATA GATATGGGAA ATAGGAAAGT	400
,,,	(2) INFORMATION FOR SEQ ID NO: 3909:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3909:	
	GGTTTAACTA TTGAAGAAAA TGTGCCGACA ATTAACAAGA TAAAAAATGC GGTATATTCA	60
	GCAGATAAAG CTTTACCTAA GATTAATGAC TTTGCGAATA AAATTGTATA TTTGAATAAC	120
25	CACCAAGCGG ATTTAGATAA ATATGCCAAT GATTTTAGAA AACTAGGAAA TTATAAAGGT	180
	GATATTTTAG ATGCTCAGAA AAAATTAAAC GAGTCAATGG TGCTATTCCG CAACTTAATG	240
	AAAAGGCTAA GTTGGATATT AGCTTTTAAA TAATTATATG CCGGAAAATT GGAAAAAGCG	300
30	TTTAAATTTT GCAGCTGGAT GACGTGCCAC GCnGTTCCCT AAAATTAATC CAGGGCTTAA	360
	CATTGCGAGT CCAGGTATTG GnTCCAAGCT AATGGGGCCG	400
35	(2) INFORMATION FOR SEQ ID NO: 3910:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3910:	60
45	TTACCCGATA TCGGGAAGGT ATCCACGAAG GTGAAATTGT AAAATGGTTT GTTAAAGCTG	120
	GAGATACTAT TGAAGAAGAC GATGTTTTAG CTGAGGTACA AAACGATAAA TCAGTAGTAG	180
<i>60</i>	AAATCCCATC ACCAGCATCT GGTACTGTAG AAGAAGTTAT GGTAGAAGAA GGTACAGTAG	240
	CTGTAGTTGG TGACGTTATT GTTAAAATCG ATGCACCTGA TGCAGAAGAT ATGCAATTTA	300
	AAGGTCATGA TGATGATTCA TCATCTAAAG AAGAACCTGC GAAAGAGGGA AGCGCCACAG	300

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	GCCATGCCTT CCAGTTACGT TAAATACGCA CGTGGAAAAG	400
	(2) INFORMATION FOR SEQ ID NO: 3911:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3911:	
15	CGTGTANCTC AAGTTATGGG TCCTGTAATT GATGTTCGAT TTGAACATAA CGAATTCCTA	60
	AAATTAATAA CGCCTTGGTT ATTGATGTGC CTAAAGAAGA AGGTACAATA CAACTAACAT	120
	TAGAAGTTGC GCTGCAATTA GGTGACGACG TTGTTCGTAC AATTGCGATG GATTCAACTG	180
20	ATGGTGTCCA AAGAGGCATG GATGTAAAAG ATACAGGCAA AGAAATTAGT GTACCTGTTG	240
	GTGACGAAAC ATTAGGTCGT GTATTTAATG TACTAGGTGA AACAATTGAC CTTAAAGAAG	300
	AAATTAGTGA TTCTGTTCGC CGCGATCCTA TCCATCGTTC AAGCACCAGC ATTCCGATGG	360
25	AACTTTTCAA CAGAAGTTCC AAATTTTTAG GNACAGGGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3912:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double. (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3912:	
	TTGTACAAGT TGAAGAAAA TCAACACAAC CAAAAGGTAG AAAATTCAAA GATTTCACTA	60
40	GTAAATITAA TATAGCATCA GAAGCTAAAG AAAATGAACC TATATCAGTC ATTGGTTATC	120
40	CAAATCCTAA TGGAAATAAA CTACAAATGT ATGAATCAAC TGGTAAAGTA TTATCAGTGA	180
	ATGGGAATAT AGTGTCATCG GATGCAATTA TTCAGCCTGG TAGCTCTGGT TCACCTATAT	240
45	TAAATAGTAA ACACGAMGCT ATTGGTGTAA TCTATGCCGG TAATAAGCCA TCAGGTGAAA	300
	GCACCAGAGG GATTTGCTGT TTATTTCTCT CCTGAAATTA AGAAATTCCA TTGCAGATAA	360
	TTTAGATAAA TNATTAAGAC CTANGACATT CACCCAATCC	400
<i>50</i>	(2) INFORMATION FOR SEQ ID NO: 3913:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
δ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3913:	
	ACTICATITAG CICTACIAAA CICGIIGCGC ICTITICICG TITCGICAGA TICAAACGIT	60
	TTCACTTCGC CAAGCCATTT TTCTTTGTGT TTACTTTTTA TTTTGACGTT TTAGACATAA	120
10	AAAAAAGAGA CCTTGCGGTC TCAATGRGGC TCATCGCATC CATTTTTTGC CTGGCAACGT	180
		240
	TCTACTCTAG CGGAAGTAAG TTGGCTACCA TCGACGCTAA GAACCTTTCT TGACTTGTGA	300
15	CAATCGCTTG CTTCTTCCT CTTCTTCGGC TCTCGCTTAC TCATTTAGCT CTACTAAACT	
	CGTTGCGCTC TTTTCTCGTT TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT	360
	CTTTGGGGTT TGCnnTTTGA ATTTGGACGT TTTAGACATA	400
20	(2) INFORMATION FOR SEQ ID NO: 3914:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:	
	TGGAATGAGC GGATATAAGC ATCTTTAGAT AATGCACCAT CAACTAATGG ATATTTATGT	60
	CCAGTTGGAC GCCAGAAATC ATAAACGTCT TCAGTGTAAG CAACAGCATC TTCATTTAAT	120
35	GCCAAAATGC TTGGATTATG TGCAATAACC ATCGCAACTG NGCCACACCT TGTGTTGGCT	180
	CGCCGCCTGA ATTCAATCCA TAACGTGCTG TATCTGTAGC AATAACTAAT ACTTTTTCAT	240
	TCGGTCTAGT TGCTAAATAA TCTTTAGCTA ATTGAATTGC TGGTGTTGCA GCATAACAAG	300
40	CTTCTTTCAT TTCAAAGCAG CGTGCAAAAG GTTGGHATAC CTAATAAGTT GTGGAATTTG	360
	NACAGCGGCT GCTTTACGAA TTCCAACTGC TGATTCCAGT	400
	(2) INFORMATION FOR SEQ ID NO: 3915:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3915:

	TCTTTATTTA TCCAGTTTCA TAGTCAATGT TTAAAGCAAA ATCTTATTGA TGGTACAAAA	120
	GTAGAAGCTA ATGCCAATAG GTATACATTT GTGTGGAAGA AAAGTATTCA AAATCACGAA	180
6	TCGAAATTGA ACGARAATTC AAAAACATTA TATCGTGACT TAGTTGAAGA AAAAATAATA	240
•	CCAGAGATAA AAGAAGATGG AGATAGCGAT TTAACAATAG ANGAAATAGA TTTAATTGGT	300
10	AGTCATTTAG ATAAAGAAAT CGAGGTTTAA ATCATTCTAT TGAGACGNGA TAGTACTCAA	360
10	ATTAGAAACA G	371
	(2) INFORMATION FOR SEQ ID NO: 3916:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3916:	
	ACCATGGACG ACGGTTAGGT TTATGAATGT TATTCCAAAT AGGTTCATCT ATAAAATAGC	60
25	TTTAGTTGGA AAAGATGAGA AAAAATATAA AGATGGACCT TACGATAATA TCGATGTATT	120
	TATCGTTTTA GAAGACAATA AATATCAATT GAAAAAATAT TCTGTCGGTG GCATCACGAA	180
30	GACTAATAGT AAAAAAGTTA ATCACAAAGT AGAATTAAGC ATTACTAAAA AAGATAATCA	240
	AGGTATGATT TCACGCGATG TTTCAGAATA CATGATTACT AAGGAAGAGA TTTCCTTGAA	300
	AGAGCTTGAT TTTAAATTGA GAAAACAACT TATTGAAAAA CAGATCTTTA CGGTAACATG	360
35	GGTTCAGGAC AATCGTATTA AATGAAAACG GGGGAATATA	400
	(2) INFORMATION FOR SEQ ID NO: 3917:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 412 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3917:	
	GAGGAAATTA TTAACCTTMC GCATCGTATG GGCCMTGAAG GAATAACAAC CTTTAGACCT	60
	GGAGATTGAG CTAAAATACC TTCTAAGTTA TCTGCGTGTA ATTCTGGTGT GTGTACGCCA	120
50	CCACCAAATG GGCTACGAAT TGTTACAGGT GCAGTTTTAG TACCGCCTGA ACGGAAACGA	180
	GTACGTGCAA TTTGTCCAGC AATCGCATCA AATACTTCGA ATACGAAACC TAAGAATTGT	240

GATTCAGCTA AAGGTGTATC GAATACTCTA TCTTCACCAA ATTCTTTTTG TAGTCCTTCA	360
GTAACACGGA AAACACCGCC GTTAACACCA ACGTCTTCAC CANAATNAAA AC	412
(2) INFORMATION FOR SEQ ID NO: 3918:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3918:	
ATAGATTGCT GAGTGACAAT ACTTCAGGAN TCGCATATGC AGGCCCAATA CCCATAATTT	60
TCGGGTCAAC GCCTACTGCC TTAAAACCAA CGAATCGTGC AATAGGTGTC ACGCCGAGTT	120
CTTTCACTTT ATCTCCAGAC ATTAAAACTA CAAATCCTGC ACCATCAGAA AGTGGGGCAG	180
ATGTTCCTGC AGTCATAGTG CCGTCAGCTT TAAATACTGT ACGTAATTTG GCTAATGCCT	240
CCATCGTGGT GTCAGGGCGT ATHAAATTCA TCTTGGTCAA AGATATTTGT GTGTACTTTT	300
GGTCCTGCGT TTGTATATTC AACTGAGTTT ACTTGTATTG GGATNATTTC ATCTTTGGAA	360
CCGACCATCA CGGTGTGCGT TCATAGGCAC GTTGATGNAC	400
(2) INFORMATION FOR SEQ ID NO: 3919:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3919:	
CAAGGGCAAC AAGGTGGCAA CGGCAATTAT TTAGAACAAA TTGGTCGTAA CCTTACNAAG	60
AAGCACGTGA CGGTTTATTA GATCCAGTCA TTGGTCGTGA TAAAGAAATT CAAGAAACTG	120
CTGAAGTTTT AAGTAGACGA ACTAAAAACA ATCCTATATT AGTTGGAGAA GCTGGTGTTG	180
GTAAAACTGC GATTGTTGAA GGTTTAGCAC AGGCAATCGT TGAAGGAAAT GTACCAGCAG	240
CAATCAAAGA CAAAGAAATT ATTTCTGTAG ACATTTCATC ATTAGAAGCT GGAACGCAAT	300
ATCGTGGTGC TTTTGAGGAA AATATTCCAA AATTAATCGA GGTGTTAAnC TTCACAAATG	360
CCGTACTATC TTTGATGAAn CCATCAATTA TCGGTTCAGT	400
(2) INFORMATION FOR SEQ ID NO: 3920:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3920:	
10	CTTATCCCGT CCACACATAG CTACCCAGCT ATGCCGTTGG CACGACAACT GGTACACCAG	60
	AGGTATGTCC ATCCCGGTCC TCTCGTACTA AGGACAGCTC CTCTCAAATT TCCTACGCCC	120
	ACGACGGATA GGGACCGAAC TGTCTCACGA CGTTCTGAAC CCAGCTCGCG TACCGCTTTA	180
15	ATGGGCGAAC AGCCAAGnCC TTGGGACCGA CTACAGCCCC AGGATGCGAT GAGCCGACAT	240
	CGAGGTGCCA AACCTCCCCG TCGATGTGAA CTCTTGGGGG AGATAAGCCT GTTATCCCCG	300
	GGGTAGCTTT TATCCGTTGA GCGATGGCCC TTCCATGCGG GAANCAACGG ATTCACTAAA	360
20	GTCCGTCTTT TCGAACCTGG CTCGGACTTG TAGGTCTCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3921:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3921:	
	CGGGTTGGGC AGGTATGTTG TATTACCGTT CACAGCAGCA TCACTTTGAA CAACATTTGT	60
35	TAACGGATTA TTTGGCAATT CGGTTAGTTG TCGAACAATT GCTAGTTGGT GATGAGTTTA	120
	AGTCAGTCGC TAAAGATTGT GAAAGTAGAT CGGAAAATTG GTTTAAGCAA ACTGTTGCAT	180
40	CATGGTGTTA CTACAGTGGA TATGCCTAGC GATGTATTAC TACAACATGA CGTCAATGAA	240
	ATTCARACGT TTATTCATTT TGGCAGCAAC TATGGAATAA AAATGTATTT AAAATTTATG	300
•	GCTNAATTGC CNGGGGAAAT GACATACGGG ATCTCAGTTT AAAACAAAAA TTAAAGCAGG	360
45	TCATGGAAAG TGTGGCGGGC GCCTTAGGTG TNAACCCAGT	400
	(2) INFORMATION FOR SEQ ID NO: 3922:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GTGCGCTCTA ACCAGCTGAG CTATAGGCCC ATTTTTTTGA ATGTTAAATA AACATTCAAA	60
	ACTGAATACA ATATGTCACG TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC	120
6	TTAGAAAGGA GGTGATCCAG CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC	180
	CAATCATTTG TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC GGCTTCGGGT	240
10	GTTACAAACT CTCGTGGTGT GACGGGCGGT GTGTACAAGA CCCGGGAACG TATTCACCGT	300
	AGCATGCTGT ATCTACGTTT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT TGCAGACTAC	360
	AATnCGAACT GAGGAACAAC TTTTATGGGG TTTGnTTTGn	400
15	(2) INFORMATION FOR SEQ ID NO: 3923:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3923:	
25	AGTAAGTAAA ATATAGATTT TACCAAGCAA AACCGAGTGA ATAAAGAGTT TTAAATAAGC	60
	TTGAATTCAT AAGAAATAAT CGCTAGTGTT CGAAGAACTC CACAAGATTA ATAACGCGTT	120
30	TCCTGTAGGA TGGAAACATA GATTAAGTTA TTAAGGGCGC ACGGTGGATG CCTTGGCACT	180
30	AGAAGCCGAT GAAGGACGTT ACTAACGACG ATATGCTTTG GGGAGCTGTA AGTAAGCTTT	240
•	GATCCAGAGA TTTCCGAATG GGGAAACCCA GCATGAGTTA TGTCATGTTA TCGATATGTG	300
35	AATACATAGC ATATCAGAAG GCACACCCGG AGAACTGAAA CATCTTAGTA CCCGGAGAAG	360
	AGAAAGAAAT TCGnTCCCTA GTACCGCGAn CGAAACGGGA	400
	(2) INFORMATION FOR SEQ ID NO: 3924:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3924:	
50	ATGCGATACG TAGCACAGCT GCAACAATCC ATGCTAGTAA AATCGGAGAC ATCTCTGTAC	60
<i>3</i> 0	CTTCAAACTA GCAATTGTAT TTCCGACACC GCCGTCAATT AATACTTGTT TAATGTACCG	120
	CCACCGCCAA TAATCAATAA CATCATTCCG ATTGGATAAA TCGCATTCGT CACTGATTCC	180

	GUALINGCA IGGUIGUCC IGCUGITCCI AICAINIANA IGAINMAILE	700
_	GTAGGGTTGT CATGCCCAGT TACAAGTTGC GTTGATCGTn GACACTAACA TTAATATGAC	360
5	TGGTAATGTT GCTGTTAATA AACTCATACC AADTCCGGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3925:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 525 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3925:	
	GGCTGGGCTA GCTGGATTCG AACCAACGAG TGACGGANAN AGGTCCGTTG CCTTACCGCT	60
20	TEGCTATAGC CCAATATATA GATGGTGGAG GGGGGCAGAT TCGAACTGCC GAACCCGAAG	120
	AGCCGGATTT ACAGTCCGCC GCGTTTACCA CTTCGCTACC CCTCCAGCTT ATTCATATAA	180
	TTTAATAATC AAAATGGTGG AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG	240
25	CAGATGCTCT CCCAGCTGAG CTAATTCTCC AAAATAATGA CTCCTACGGG ACTCGAACCC	300
•	GTGTTACCGC CGTGaAAGGG CGTGtgCTTA ACCCTTGGAC CAAGGAGCCA TGGCTCaCAG	360
30	GTAGGACTCG AACCTACGAC CGATCGGTTA ACAGCCGATA GCTCTACCAC TGGAGCTGAC	420
	TGTGGATTAA TATTATGCCT GGCAACGTTC TGANNCTAGC GGAANTGAAT TCGGACTGAC	480
	CATCGACGCn AAGGAGCTGA ACTTCTGTGT TCGGGCATGG GGAAC	525
35	(2) INFORMATION FOR SEQ ID NO: 3926:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3926:	
45	TGTTATTGTT CAAAATCATG ATCAAGATCA GTATATCGTT GCTTATTATG AAGCGATGCA	60
	TACATTATCA CATAATAAGA TTAAATCACA ATTACGTATG ACCTTACCGG AGTACATGAT	120
	ACCAGTTAAT TTCATGCATA TTGAGCAAAT TCCTATTACT ATTAATGGGA AATTAGATAA	180
50	GAAGGCATTG CCTATCATGG ACTATGTCGA TACGGATGCC TATGTAGCAC CGAGTACAGA	240
	TACCGRACAC TTGCTATGCC AAATTTTTGC AGATATTTTA CATGTGAATC AAGTAGGTAT	300

400

TCCGGATAGA GGCATCCACT GGGGAACGGT TACCAATTGG

	(2) INFORMATION FOR SEQ ID NO: 3927:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3927:	
15	TATCGATCAA TTTCTATCGA GTTGGACAAT GCCGAACGTG ACAAAGTTTT TACCATGCAT	60
	GGTTGCATTT AGCGCAACAT GACCATAGTT TTACTAAAGC ACAGCGCGCA AGTGATTAAA	120
	GGCTTACCCA ATGATCCTGA AATGACGATA GAGTCAGTAT TAACTCATTT TTCAATAGAT	180
20	CAGGAAGACT ACCAAGCTTA TGTTGAAGGA CATCTTTTGG CGTTACCGGG TTGGGCAGGT	240
	ATGTTGTATT ACCGTTCACA ACAGCATCAC TTTGGAACAA CATTTGTTAA CGGATTATTT	300
	GGCAATTCGG TTAGTTGTCG AACAATTGCT AGTTGGTGGA TGAGTTTAAG TCCATCGCTA	360
25	AAGATGTGGA AATAGnCCGG AAAATGGTTT TAAGCAAACT	400
	(2) INFORMATION FOR SEQ ID NO: 3928:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· :
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3928:	
	GTGCACCTAA CGCTGAAATA TCGCCTTCTC GTGTATAGCA GACGGAATCA TTTTTTGTGC	60
40	ANTITGITAA ATATAGGCCC TGCAATGAGT GTACTGGAAT GGCAATAATC ATACCATACA	120
	GTAATACATC TCCAACATTT GCCTTTAATT CTTTTGCGAT GACTACCGGT CCTGGATGTG	180
	GTGGTAAAAA GCCATGTGTC ACTGATAAAG CTGTTACCAT AGGTAGTCCT AGTTTTAACA	240
45	CTGAAACATT TGCGCGTTTT GCTACTGTAA ATACTAATGG AATCAGTAAG ACTAAACCTA	300
	CTTCAAAGAA CAATGCAATA CCGACGATAA ATGCTGGCAA CAAGCATTGC CCCATTGGTA	360
50	CATGGTTTTT GGACCAAATT TTTGGAATCA ACGTGTCTGG	400
50	(2) INFORMATION FOR SEQ ID NO: 3929:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
55		

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3929:	
	CTCAAGGTGT TGCCTATACA GCTAAAAAAC TTAATTTAAA CGCTGTTATC TTTATGCCAG	60
10	TCACTACACC TTTACAAAAG GTAAATCAAG TAAAGTTCTT TGGAAATAGT AACGTTGAAG	120
	TTGTACTCAC TGGTGATACA TTTGATCACT GTTTAGCTGA AGCTTTAACT TATACAAGTG	180
	AACATCAAAT GAACTTTATA GATCCATTCA ATAATGTTCA TACAATTTCT GGACAAGGTA	240
15	CGCTTGCTAA AGAAATGCTA GAACAAGCAA nGTCTGACAA TGTTAACTTT GCATTATCTA	300
	TTTGCCGCAA TTGGTGGTGG CGGTTTAATT TCAGGTATTT CGTACTTACT nTTAAAACCT	360
	ATTCACCTAC CACGNAAATT ATAGGTGTTG AACCCCNAGT	400
20	(2) INFORMATION FOR SEQ ID NO: 3930:	
2 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3930:	
	ATATGATCCT ATGAAGCAAT TTTATGTAGT AAGTGGTTCT AAACATGACG CCCTTATGCT	60
	CTGTGAACAT TTATATGACG AGGTTATGGC TGTTTGCTAA nCCCAAATGA TACATCGAAT	120
35	GGCACATATC ATTCGTCGCA ATATGATTAC TATGATGCAT TTATTAAGCA GCAAGAAAAT	180
	GTAACATATA TTTCAACCGA TCGTGCAGAT GCTAATACAG TGTTATGTCA CTAATTTATA	240
	AAAAATAAAT GAATAAGTAA GGTTTCAACC GAGAGAATAT ATTCGTGTTG AAGCCTTATT	300
40	TGTCGTTGTG CCAAATTTGA ACGNTTTAGA TGGCAATAAG CATGACCATA CAGATTGTGT	360
	ATTATTTCCA TGnA	374
45	(2) INFORMATION FOR SEQ ID NO: 3931:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3931:	

	TGCTTCTTTC GCTAGCCTCG TATGGGCATC TTTATCAATA ATATACTCGC CATGACTATC	120
	TTTCGCTTTT AAGTCAATTT CATCAAACTC TTTCCCACCT GTTAACGGTG CACCACTATG	180
5	TCGTTTCCGA CCAAATGTAG CCTCTTGTTC TTCCAGCGCA GTACGATCCC ACGTTTCAAT	240
	GTGTATTTGA ATACGTCTGA CAACGCAATA AGTTCCATGT TTCGCCCATC CGTCATCAAT	300
	AAACACATAA TCTTTAAGTT GATTATTCTT CCTAGGATTA ATTGTTCCAC TTTAAAATGC	360
10	CATTHAAATT CTAGGTGTTT CCHTANC	387
	(2) INFORMATION FOR SEQ ID NO: 3932:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3932:	60
	AAGGTAATAA TCCTGTAGTC GAAAATGTTG TCTCTCTTGA GTGGATCCTG AGTACGACGG	120
25	AGCACGTGAA ATTCCGTCGG AATCTGGGAG GACCATCTCC TAAGGCTAAA TACTCTCTAG	
	TGACCGATAG TGAACCAGTA CCGTGAGGAG AAGGTGAAAA GCACCCCGGA AGGTAGATGA	180
	AATAGAACCT GAAACCGTGT GCTTACAAGT AGTCAGAGCC CGTTAATGGG TGATGGCGTG	240
30	CCTTTTGTAG AATGAACCGG CGAGTTACGA TTTGATGCAA GGTTAAGCAG TAAATGTGGA	300
	GCCGTAGCNG AAGNANGTTC TGAATAGGGC GTTTAGTATT TGGTCGTAGC CGATAACCAG	360
	GTGATTCTAC CCTTTGGTCA GGTTGAAGTT CAAGTAACAT	400
35	(2) INFORMATION FOR SEQ ID NO: 3933:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3933:	
45	GCGATGGTTG AAACATTGAC TTATATTAAA GAGTTTATGA ACCAAGTTGA GTCGCATAGC	60
	TAGTATGAAA CGTGGTGTGC GCATGGGAAC TATCAAGCTT TGAAGATGTG GTACTACATG	120
50	CGTTGAATTA GGGATCGGTA CTTTATATGA AGACGTGCTG CTTCCATTAA ATGAGTGATG	180
	CGATTTTGGC ATGAAGGTCA CCTTAAATGT ACATTGTTGT AATAAAATTG CCTATAAATT	240

	AATTGTAAAA AGAAAACCAT ACGCTATGTG nTGCCAAGGA AAAGGTTCTA CCATTGTCAC	360
	naaaaatgca tctctacgtg ctaggaataa atattgggtc	400
5	(2) INFORMATION FOR SEQ ID NO: 3934:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3934:	
	TTTGACGTTT TAGACATAAA AAAAGAGACC TTGCGGTCCA GATGGGGCTC ATCGCATCCA	60
	CTTTTTGCCT GGCAACGTTC TACTCTAGCG GAANTAATCG AACTACCATC GACGCTAAGG	120
20	AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA GTCACCAGAC	180
	ATATGAATGT AAATTATACA TTCAAAACTA GATAGTAAGT AAAAGTGATT TTGCTTCGCA	240
	AACATTTATT TTGATTAAGT CTTCGATCGA TTAGTATTCG TCAGCTCCAC ATGTCACCAT	300
25	GGCTTCCACC TCGAACCTAT TAACCTCATC ATCTTTGANG GATCTTATAA CCGAATTGGG	360
	AANCTCATCT GAAGGGGGCT CAGCTAGATG CTTCANACTT	400
	(2) INFORMATION FOR SEQ ID NO: 3935:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 393 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3935:	
	TGTTCTTTTT GGGCAGTGGG ACACAAATGG ATATTTTCGG CAAAATTTAT TTCGTTCGnT	60
40	CCCACCCCAA CTTGGCACAC TATTGTAAGC TGACTTTTCG CCAGCTTCTG TGTTGGGGCC	120
	CCGCCAACTT GCCATTGTCT GTAGAAATTG AGGAGCTAAT TTCTCTGTGT CGGGGCTCCA	180
45	CCCCAACTTG CACACTATTG TAAGCTGACT TTCCGCCAGC CTCTGTGTTG GGGCCCCGCC	240
	AACTTGCACA CTATTGTAAG CTGACTTTCC ACCAGCCTCT GTGTTGGGCC CCGACTATTT	300
	TTGAAAAGAG CGTGTTACAC GGGCATTGTT TTACAGTCAA CTACTGCTAA AATAAAATTA	360
50	ACGAGCTTAA GGCTTTGGnT TCTGTCCCAA GCC	393
	(2) INFORMATION FOR SEQ ID NO: 3936:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3936:	
10	AAAAAGAAGA CAACCAAGCC CAATAATGGA CTGGCCGCGT AATAATnGTG GCTCTAAAAG	60
	TTGTATTTTA AAAATAGTTC TTTAAATTAT ATACCCACCA CATTTGGTGG AGAACCTAAA	120
	AAAAAGCACT TCCCAAAAAT GGAAAGTGCA AGTAGTGAGC CATAGAGGAT TCGAACCTCT	180
15	GACCCTCTGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC	240
	TAGCTGGATT CGAACCAACG AGTGACGGAn TCAAAAGTCC GTTGCCTTAC CGCTTGGCTA	300
	TAGCCCAATA TATAGATGGT GGAAGGGGGC AGATCGAACT GCCGAACCCG AGGAGCGGAT	360
20	TTACAGTCCG CCGCGTTTAG CACTTCGCTA CCCTCCAGCT	400
	(2) INFORMATION FOR SEQ ID NO: 3937:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 609 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3937:	
	GGTTTAACAC GCCTGCCTGT CACGCAGGAG ATCGCGGGTT CGATTCCCTG TCGAGACCGC	60
35	CATTATTATT ACCATTACGG TTCAGTAGCT CAGTTGGTAG AGCAATGGAT TGAAGCTCCA	120
	TGTGTCGGCA GTTCGACTCT GTCCTGAACC ATTCTTAATT CATGGCGGTT GTGGTGAAGT	180
40	GGTTAACACA TCGGATTGTG GTTCCGACAT TCGAGGGTTC GATCCCCTTC AGCCGCCCCA	240
40	TAATCGTTTA CATTAGCGGG TGTAGTTTAA TGGCAAAACC TCAGCCTTCC AAGCTGATGT	300
	TGTGGGTTCG ATTCCCATCA CCCGCTCCAT TATTTTCTAT TATTCCACAG TAGCTCAGTG	360
45	GTAGAGCTAT CGGCTGTTAA CCGATCGGTC GTAGGTTCGA GTCCTACCTG TGGAGCCATG	420
	GCTCYTTGGt CAAGCGGTTA AGACACCGCC CTTTCACGGC GGTAACACGG GTTCGAGTCC	480
	CGTAGAGTYC ATACAAGCAG AAGTGNAAAT ATCGCTTCTG TTTTTTTATT ACATAWTTAA	540
50	TKGTTGGAGG aAGtTGTcCG AGCYGGGCCG AAGGAGCACG CCTGGAAATG TGTAAGCGTT	600
	CACAAGCTT	609
	(2) INFORMATION FOR SEQ ID NO: 3938:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3938:	
10	TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC TACATGAAGC TGGAATCGCT	60
	AGTAATCGTA GTCAGCATGC TACGGTGAAT ACGTTCCCGG GTCTTGTACA CACCGCCCGT	120
	CACACCACGA GAGTTTGTAA CACCCGAAGC CGGTGGAGTA ACCTTTTAGG AGCTAGCCGT	180
15	CGAAGTGGGA CAAATGATTG GGGTGAAGTC GTAACAAGGT AGCCGTATCG GAAGGTGCGG	240
	CTGGATCACC TCCTTTCTAA GGATATATTC GGAACATCTT CTTCAGAAGA GCGGAATAAC	300
20	GTGACATATT GTATTCAGTT TTGAATGTTT GTTCATTCAA ATTAATGGGC CTATAGCTCA	360
	GNGGTTANAG CGCACCCTGA TNAACGTGAA GTCGGTGGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3939:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3939:	
	AGTTTTGAAT GTATAAATTA CATTCATATG TCTGGTGACT ATAGCAAGGA GGTCCACCTG	- 60
35	TTCCCATGCC GAACACAGAA GTTAAGCTCC TTAGCGTCGA TGGTAGTCGA ACTTACGTTC	120
•	CGCTAGAGTA GAACGTTGCC AGGCATAATA TTAATCCACA GTAGCTCAGT GGTAGAGCTA	180
40	TCGGCTGTTA ACCGATCGGT CGTAGGTTCG AGTCCTACCT GTGGAGCCAT GGCTCTTGGT	240
	CAAGCGGTTA AGGACACCGC CCTTTCACGG CGGTAACACG GGTTCGAGTC CCGTAGAGTT	300
	CATTATTTTG GAGAATTAGC TCAGTAGGGA GAGCATCTGC CTTACAAGCA GAGGGTCGGC	360
45	GGTTTCGAAC CCTnCATTTT CCACCATTTG GTTATTAAAn	400
	(2) INFORMATION FOR SEQ ID NO: 3940:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ACACAACAGC TGTTTCAAAA ATGATTGGTA CAACTGCTGG TTATGTTGGT TATGATGACA	60
	ATTCAAATAC GTTAACTGAA AAAGTACGCC GTAATCCATA CTCAGTCATT CTATTTGATG	120
5	AAATCGAAAA AGCAAATCCA CAAATTTTAA CATTGTTATT ACAAGTAATG GATGATGGTA	180
	ATTTGACTGA TGGTCAAGGT AATGTCATCA ACTTTAAAAA TACAATTATT ATTTGTACAT	240
10	CAAATGCTGG CTTTGGCAAT GGCAATGACG CTGAAGAAAA AGATATTATG CACGAAATGA	300
,,	AAAAATTCTT CCGCCCTGAA TTCCTTAACC GCTTCAACGG CATCGTGAAT TnCTTACATT	360
	TAGATAAGGT GCCnTGCAGG TATCGTCCAA CTATTATTAG	400
15	(2) INFORMATION FOR SEQ ID NO: 3941:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3941:	
25	ATACAATTIT AAATCTGTAT GTGTGAATCC AACACATGTT AAATATGCAG CAGAGCGnCT	60
	AGCTGATTCA GAGGTGCTCG TTTGTACGGT AATAGGATTC CCATTAGGTG CGTCGACAAC	120
30	TGCAACGAAA GCATTTGAAA CAGAAGATGC AATTCAAAAT GGTGCAGATG AAATTGACAT	180
	GGTCATCAAC ATCGGCGCAT TAAAAGATGG ACGTTTTGAT GATGTACAAC AAGACATTGA	240
	AGCAGTGGTT AAAGCTGCGA AAGGTCACAC AGTAAAAGTG ATTATTGAGA CGGTATTGTT	300
35	GGACCATGAC GAAATTGTAA AAGCGAGTGA TTAACAAAAG CGGCTGGTGC GGACTTCGTT	360
	AAAAACTTCA GCAGGTTTTG CCAGTGGCnG TGCGACTGCA	400
40	(2) INFORMATION FOR SEQ ID NO: 3942:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3942:	
50	CTCTGGATCA AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA	60
	TCGGCTTCTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAC	120
55	CATTITIATA AGTCAAACGT TAACATGAAG TTACGTTCTT TTATAAAAAG ATTTAAACGC	180

	TATTIAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA TCTATATTTT ACTTACTTAT	300
5	CTAGTTTTCA ATGTACAAAT AATGGTGGAG ACTAGCGGGA TCCGAACCCG CTGACCCnAC	360
8	CDGCGTGCAA AGCAGGCGCT CTACCCAGCT TGAGCTAAGG	400
	(2) INFORMATION FOR SEQ ID NO: 3943:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3943:	
	CGCTACACTA CGAGACCATT AGTAAAACGG AGGAAGAGGG ATTCGAACCC CCGCGAGCCG	60
20	TTAAGCCCCT GTCGGTTTTC AAGACCGATC CCTTCAGCCG GACTTGGGTA TTCCTCCAAA	120
	ATTATATGGA CCTTGCAGGA CTCGAACCTG CGACCGAACG GTTATGGAGC CGTTAGCTCT	180
25	GAACCAACTG AGCTAAAGGT CCTAAATATA ATTTTACAAC TAATAAATAG TGGCGGTGGA	240
	GGGGATCGAA CCCCCGACCT CACGGGTATG AACCGTACGC TCTAGCCAGC TGAGCTACAC	, 300
	CGCCTTATAT AGTTTGTAAA TNANNATGGT GGGAGACTAG CGGGGTTCGA ACCGCTGGAC	360
30	CTCCTGCGTG CCAAAGCAGG CGGCTTCTAC CCAGCTGGAG	400
	(2) INFORMATION FOR SEQ ID NO: 3944:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 406 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3944:	
	CCAAAATTGC ACCTTGTCGT TTATTCGGAA AATCAATATn GnTAGGGGGT ATAAGATGCA	60
45	CCTACTITAA CTGTCGCCAA CATCGCCGCA ATCATTTCAA AACTACGTTC TGTAAACAAG	120
	GCAACCCGTT GACCATTGCC CACACCATTT GATAGGAGCA TGTGCGCAAT GGCATCCACA	180
	TAGTTGCGTA ATGTTTCATA CGTCATTGTC AAATCATTCA TGACTAGCGC AACATGATTA	240
50	CCTTGTCGTG AGAAACTTCA TTAAAGTAAC TTATGATAGA TTTATTTCCC GGGACATTAA	300
	GCATTCGATC GTTAACATGC GTATTGACCC AATTTAGAAG TTCCTCCGTG CCGTTTGGTA	360
55	TATCACAAAT TTGTAGTGTA WCLTGaTGCT TCmAAATALC AATCAn	406

6	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3945:	
	CAATGACAAC AGCAACTGAG ACAGTGTCAA ACGCTTAATA ATAATGATGT AGTGTCGAAT	60
	AATACCGCAT TAAATGTACC AACTAAAACA AATGAAAATG GTTCAGGAGG ACATCTAACT	120
15	TTAAAGGAAA TTCAAGAAGA TGTTCGTCAT TCTTCAAATA AACCAGAGCT AGTTGCAATT	180
	GCTGGAACCA GCATCTGAAT AGACCGAAAA AGAGAAGTTA GACGTGCGGC ACCGGCAGAT	240
	CCTGAATGCC AACTCCAGCA GATCCAGCGG CTGCAGCGGT TAGGAAACGG TGGTGCACCA	300
20	GTTGCAATTA CAGCGCCATA TACGCCAACA ACTGATCCTA ATGCCATGAn GCCAGGACAA	360
	ATGGCACCTA ACGANGCTTG TTCATTTGAT GGACANGGTA	400
25	(2) INFORMATION FOR SEQ ID NO: 3946:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3946:	
35	CTCGCTGCGA TAAAGTACCA GTTCATAGCA ACGTTTGTnT TAATAGGnTC TGAAACGATA	60
	CGTGTTGCCG GTTCTGTAAA TGAATAGACC AAAGCATCTT GCATACCAAC AACTATATTT	120
	GCTGCAAATC CTCCAACAGC GGAANATATG CCATCGTTAG TCCAGCGATA GGGTGATAGC	180
40	CAATTTAAT AAAAAGCATT GCTGCAACGG CCGGCAAGAT AATTGTCGCA GCATCGCCGG	240
	CTGTACTACC TAAAATACCA ATTAATATAA TAGTCGGTAA AATTAAGAAA CGTGGTGCGC	300
	GATTCACAAC AGAAATCATT AACTTATCGA AGTATCCTGT TTTCTCTGCA ACACCAATAC	360
45	CAATCATCAC TGCTAGGTAC TAAGCCTAAT GCTGGGnACT	400
	(2) INFORMATION FOR SEQ ID NO: 3947:	
60	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3947:	
_	GCCGGCCAGA GGACTTGGAA CCCCCAACCT ACTGATTACA AGTCAGTTGC TCTACCAATT	60
5	GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC	120
	CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT	180
10	GGCAACGTTC TACTCTAGCG GAANTAATTC GNACTACCAT CGACGCTAAG GAGCTTAACT	240
	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	300
	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCnTTCG CAAAACATTT	360
15	A	361
	(2) INFORMATION FOR SEQ ID NO: 3948:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3948:	
	TTCCGTCAGA CCCTGACATG GTTCATGGGT TCATATTGCA TAGGACCGAA ATCTTCAAAC	60
30	ACTACGTGCT TTGGGCAGAC TTCGCAAAAA TACGGCCTCA ACAAAGGAAT TAAGCCTCGC	120
	ATAAAGCGGA TTTCGAGTAC AGGGAACCGC TACCTCCCCA CCTAGCACGG CAAGATATAT	180
	ATTACTATAT TITAATAGTT AATTGCAAGT ATAAATCATT TATATCATTG TITACTTTAT	240
35	ACGACGICTI GAGAAGICAT TAAITTAAAI TCATITGCAA GATGITTIGA AATATTATAT	300
	TGAAACGGCA TIGTATTTC TAAATACACA nTACTTCGAA CTGTTGCnGA ATAGGCCACC	360
	GATACATCAC CAACAATTGG nA	382
40	(2) INFORMATION FOR SEQ ID NO: 3949:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3949:	
	GCCAAGCCAT TTTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT AAAAAAAAAA	60
	GACCTTGCGG TCTCAATGCG GCTCATCGCA TCCATTTTTT GCCTGGCAAC GTTCTACTCT	120
55		

TTGCTTCTTT CCTCTTCTTC GGCTCTCGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG	240
CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG	300
TTTGCTTTTT ANTTTGACGT TTTAGACATA AAAAAAAGAG ACCTTGCGGN CTCAATGNGG	360
GCTCATCGCA TCCAATTTTT GGCCTGGCAA CGGTTCTACT	400
(2) INFORMATION FOR SEQ ID NO: 3950:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3950:	
ACTCGGTTTT GCTTGGAAAA TCTATATTTA CTTACTTATC TAGTTTTCAA TGTACAATTT	60
CTTTTTAGTC AAGCGCTCGC ATACTGCTTT ATTTTCATAA GCAATATCAC TTTAACCAAA	120
AAATATTTGA ATGTTAAATA AACATTCAAA ACTGAATACA ATATGTCACG TTATTCCGCA	180
TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA GGTGATCCAG CCGCACCTTC	240
CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG TCCCACCTTC GACGGCTAGC	300
TCCTAAAAGG nTACnCCACC GGCTTCGGGT GTTACAAACT CTCGTGGTGT GACGGGCGGT	360
GTGTACAAGA CCCGGGAACG NATTCACCG	389
(2) INFORMATION FOR SEQ ID NO: 3951:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3951:	
AAAGCTCGAC TTGTTTACGA TGTTGAAAAA CAAGATTATG TACCTGTATC GCAACCACAA	60
TTACCAATTT TAAATGAATT TAATAAAGAC TTAGTGCATA ACCTTGATAC CATATTCAAT	120
GCGCAAGACG ANCGGGACTA TITTTATGGG AGACATTACG TAATAATTTC TATTACTCTG	180
CTATCAATGT ACCTAAAGCT ACCGATGATT TCCGAGACAT AGACCGTGCG CTTGTCTGGG	240
GGTTCAACTG GAAACTTGGT CCATTCCAAT TATGGGATGC AATGGGATAC GAACGTGTTA	300
AAACANTGAT GGGAAGACGA ACTTGGGAGA CTTACCACAA TGGGATTAGT GANTTAGATG	360

(2) INFORMATION FOR SEQ ID NO: 3952:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3952:	
	CAAAGGGCAG CGAAACCGCG AGTCCAGAGC AAATCCCATA AAGTTGTTCT CAGTTCGGAT	6
15	TGTAGTCTGC AACTCGACTA CATGAAGCTG GAATCGCTAG TAATCGTAGA TCAGCATGCT	12
	ACGGTGAATA CGTTCCCGGG TCTTGTACAC ACCGCCCGTC ACACCACGAG AGTTTGTAAC	18
	ACCCGAAGCC GGTGGAGTAA CCTTTTAGGA GCTAGCCGTC GAAGTGGGAC AAATGATTGG	24
20	GGTGAAGTCG TAACAAGGTA GCCGTATCGG AAGGTGCGGC TGGGATCACC TCCTTTCTGA	30
	AGGATATATT CGGGAACATC TTCTTCAGAA GAGCGGGAAT AACGTGACAT ATTGTATTCA	36
	GnTTTGGAAT GTTTnnTTAA CATTnCAAAA AAATGGGGCC	40
25	(2) INFORMATION FOR SEQ ID NO: 3953:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3953:	·
	TGATTTTGAC GTTTTAGACA TAAAAAAAAG AGACCTTGCG GTCTCAAATG CGGCTCATCG	60
	CATCCATTT TTGCCTGGCA ACGTTCTACT CTAGCGGAAC GTAATTGGCT ACCATCGACG	120
40	CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTTCTT CGGCTCTCGC	180
	TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG	240
	TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTGCTTTT TATTTTGACG TTTTAGACAT	300
45	AAAAAAAAGA GACCTTGCGG TCTCAATGCG GGCTCATCGC ATCCATTTTT TGCCTGGCAA	360
	CGTTCTACTC nAGCGGGAAG TGAAGnCGGA CTGACCAAGC	400
50	(2) INFORMATION FOR SEQ ID NO: 3954:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3954:	
	AAACTACATA ATGAAAATGC CGTTTTAATC GGTAAATTAA ATATGGATGA GTTTGCAATG	60
5	GGTGGTTCAA CAGAAACATC TTATTTCAAA AAAACAGTTA ACCCATTTGA CCATAAAGCA	120
	GTGCCAGGTG GTTCATCAGG TGGATCTGCA GCAGCAGTTG CAGCTGGCTT AGTACCATTT	180
	AGCTTAGGTT CAGACACAGG TGGTTCAATT AGACAACCGG CTGCATATTG TGGCGTTGTC	240
10	GGTATGAAAC CAACATACGG TCGTGTATCT CGATTTGGAT TAGTGCTTTG CATCTTCATA	300
	GACCAAATTG GGCCATGACT CGAATGTAAA GTAATGCCAT CGTATTAGAA GCTATTCTGG	360
15	TGCAGATGNT AATGACTCTA CCAGTGCACC AGTGATGAGG	400
	(2) INFORMATION FOR SEQ ID NO: 3955:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(with applying proceduration and to we have	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3955:	
	TCGATTGGCA TTTCTCCGCT ACCCTCAGTT CATCCGCTCA CTTTTCAACG TAATCGGTTC	60
30	GGTCCTCCAT TCAGTGTTAC CTGAACTTCA ACCTGACCAA GGGTAGATCA CCTGGTTTCG	120
	GGTCTACGAC AAATACTAAA CGCCCTATTC AGACTCGCTT TCGCTACGGC TCCACATTTA	180
	CTGCTTAACC TTGCATCAAA TCGTAACTCG CCGGTTCATT CTACAAAAGG CACGCCATCA	240
35	CCCATTAACG GGCTCTGACT ACTTGTAAGC ACACGGTTTC AGGTTCTATT TCACTCCCCT TCCGGGGGTG CTTTTCACTT TTCnCTTCAA GGTATGGGTT CACTATCGGT nACTAGAGAG	300 360
	TAATTAGCTT AGGIGATGGT CCTCCCAGAT TCGGAAGGGA	400
		400
40	(2) INFORMATION FOR SEQ ID NO: 3956:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3956:	
50	GCTACGGGCG CATATGTTTT TATTGAAAAT GGTGCCGAGG ACCGGAATCG AACCGGTAGT	60

	ATAAAAATGG AGCAGAAGAC GGGATTCGAA CCCGCGACCC CAACCTTGGC AAGGTTGTAT	180
	TCTACCGCTG AACTACTTCT GCATATGCGG GTGAAGGGAG TCGAACCCCC ACGCCGTAAG	240
5	CTTAGGATCC TAAGTCTAGT GCGTCTGCCA ATTCCGCCAC ACCCGCAAAT GGTGAGCCAT	300
	AGAGGATTCG AACCTCTGGA CCCTCTGGAT TAAAAGTCAG ATGCTCTACC AACTGGAGCT	360
10	AATGGCTCTT TCCATGGTGC CGGGCCAGAG GACTTTGAAn	400
	(2) INFORMATION FOR SEQ ID NO: 3957:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3957:	
	CAGACATGTG TTATACGGGA AATTGGGCGA ACCGCAACTA TTATACATTG ATTTACACCT	60
	TATACATGAA GTTACTTCTC CTCAAGCATT TGAAGGACTT AGGCTTCAAA ACAGAAAATT	120
25	AAGACGCCCA GATTTAACAT TTGCAACACT CGATCACAAT GTTCCTACTA TTGATATATT	180
	CAATATTAAA GATGAAATTG CAAACAAACA AATCACAACA TTACAAAAAA ACGCCATAGA	240
30	TTTTGGGGTG CATATTTTTG ATATGGGTTC TGATGAACAA GGTATTGTTC ACATGGTAGG	300
	ACCTGAGACA GGACTTACAC AGCCTGGCNA GACCATCCGT NTGTGGGTGA CTCTCACACA	360
	GCCACACATG GnGCCTTTT	379
35	(2) INFORMATION FOR SEQ ID NO: 3958:	•
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3958:	
45	TGTTAAAATA CGGTACATCT AAATTAATGT TAACTGATTT TCAAAAAGAG AATTAAATAA	60
	ATATATTCAA GGTCAGANAC AACGCGTGAT ATTTGAAAAT GGCCATTTTG TCTAATTGAT	120
50	AGTGAATATA ATTAGAGTAA GAGGCTGGGA CATAAATCCC TAAAAAACAG CAGTAAGATA	180
50	ATTTCAATT AGAAAATATC TTACTGCTGT TCTCTATTTA TACAATACTT CGTATTGAAT	240
	GGCTTCGCTT TCCTAGGGTG CCGTCTCAGC CTCGGTCTTC GACTGGCACT GCTCCCTCAG	300

AATAAGACAT TTGCCCAACT TGACACTACC ATTAAAAACT

	(2) INFORMATION FOR SEQ ID NO: 3959:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3959:	
15	GAGCCGCAGT GGAATGAGGC CCAAGCGACT GTTTATCAAA AACACAGGTC TCTGCTAAAC	60
	CGTAAGGATG TGTTATAGGG GCTGACGGCT GCCCGGTGCT GGAAGGTTAA GAGGAGTGGT	120
	TAGCTTCTGC GACGTACrGA ATCGAAGCCC CAGTAAACGG CGGCCGTAAC TATAACGGTC	180
20	CTAAGGTAGC GAAATTCCTT GTCGGGTAAG TTCCGACCCG CACGAAAGGC GTAACGATTT	240
	GGGCACTGTC TCAACGAGAG ACTCGGTGAA AATCATAGTA CCTGTGAAGA TGCAGGTTAC	300
25	CCGCGTACAG GACGGAAAGN CCCCTGGAGC TTTACTGTAG CCTGATATTG AAATNCGGCA	360
	CAGTTTGTAC AGGATAGGTT AGGAGCCTTG GAAACGTGTG	400
	(2) INFORMATION FOR SEQ ID NO: 3960:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(B) TYPE: nucleic acid	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	60
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960:	60 120
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960: TGGTCCCAAA CCAAGTGCTC TACCAAGCTG AGCTACTTCC CGTATAATTA ACGCGCCCGA	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960: TGGTCCCAAA CCAAGTGCTC TACCAAGCTG AGCTACTTCC CGTATAATTA ACGCGCCCGA TAGGAGTCGA ACCCATAACC TCTTGATCCG TAGTCAAACG CTCTATCCAA TTGAGCTACG	120
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960: TGGTCCCAAA CCAAGTGCTC TACCAAGCTG AGCTACTTCC CGTATAATTA ACGCGCCCGA TAGGAGTCGA ACCCATAACC TCTTGATCCG TAGTCAAACG CTCTATCCAA TTGAGCTACG GGCGCATATG TTTTTATTGA AAATGGTGCC GAGGACCGGA ATCGAACCGG TAGTGANTNC	120 180
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960: TGGTCCCAAA CCAAGTGCTC TACCAAGCTG AGCTACTTCC CGTATAATTA ACGCGCCCGA TAGGAGTCGA ACCCATAACC TCTTGATCCG TAGTCAAACG CTCTATCCAA TTGAGCTACG GGCGCATATG TTTTTATTGA AAATGGTGCC GAGGACCGGA ATCGAACCGG TAGTGANTNC ACTCACCGCA GATTTTAAGT CCTGTGCGTC TGCCAGTTCC GCCACCCCGG CACTATAAAA	120 180 240
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960: TGGTCCCAAA CCAAGTGCTC TACCAAGCTG AGCTACTTCC CGTATAATTA ACGCGCCCGA TAGGAGTCGA ACCCATAACC TCTTGATCCG TAGTCAAACG CTCTATCCAA TTGAGCTACG GGCGCATATG TTTTTATTGA AAATGGTGCC GAGGACCGGA ATCGAACCGG TAGTGANTNC ACTCACCGCA GATTTTAAGT CCTGTGCGTC TGCCAGTTCC GCCACCCCGG CACTATAAAA ATGGAGCAGA AGACGGGATT CGAACCCGCG ACCCCAACCT TGGCAAGTTG TTATTCTTAC	120 180 240 300
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3960: TGGTCCCAAA CCAAGTGCTC TACCAAGCTG AGCTACTTCC CGTATAATTA ACGCGCCCGA TAGGAGTCGA ACCCATAACC TCTTGATCCG TAGTCAAACG CTCTATCCAA TTGAGCTACG GGCGCATATG TTTTTATTGA AAATGGTGCC GAGGACCGGA ATCGAACCGG TAGTGANTNC ACTCACCGCA GATTTTAAGT CCTGTGCGTC TGCCAGTTCC GCCACCCCGG CACTATAAAA ATGGAGCAGA AGACGGGATT CGAACCCGCG ACCCCAACCT TGGCAAGTTG TTATTCTTAC CGCTGGAACT ACTTCTGGCA TATGCGGGTT GAAGGGGAGT CGAACCCCCA CGCCGTAGGC	120 180 240 300 360

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3961:	
	TTTTGATACA TAATCTAAAT TTCTCAAAGC GCCAATAACA GAGGACCATC TCCTAAGGCT	60
	AAATACTCTC TAGTGACCGA TAGTGAACCA GTACCGTGAG GGAAAGGTGA AAAGCACCCC	120
10		
	GGAAGGGAGT GAAATAGAAC CTGAAACCGT GTGCTTACAA GTAGTCAGAG CCCGTTAATG	180
15	GGTGATGGCG TGCCTTTTGT AGAATGAACC GGCGAGTTAC GATTTGATGC AAGGTTAAGC	240
15	AGTAAATGTG GAGCCGTAGC GAAAGCGANG TCTGAATAGG GCGTTTAGTA TTTGGTCGTA	300
	GACCGGAAAC CAGGTGATCT ACCCTTGGTC AGGTTGAAGT TCAGGTAACA CTGAATGGAG	360
20	GACCGAACCG ACTTACGTTG AAAAGTGAGC GGATGAACTG	400
	(2) INFORMATION FOR SEQ ID NO: 3962:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3962:	
	TAATAATTAC AGTATATCGG GAAGACAGGA TTCGAACCTn CGACCCCTTG GTCCCAAACC	60
•	AAGTGCTCTA CCAAGCTGAG CTACTTCCCG TATANTTAAC GCGCCCGATA GGAGTCGAAC	120
35	CCATAACCTC TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTG	180
	TTTATTGAAA ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGATCACT CACCGCAGGA	240
40	TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATANAAAT GGATCAGAAG	300
40	ACGGGATTCG AACCCGCGAC CCCAACCTTG GCAAGGTTGT ATTCTACCGC TGAACTACTT	360
	С	361
45	(2) INFORMATION FOR SEQ ID NO: 3963:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 375 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3963:	

	AAGTGTCTTA TTTTTTTAAA GTATTTCAAA GTAAAATTAC ATGTTAATAC GTAGATTAAT	120
	GGCGAGACTC CTGAGGGAGC AGTGCCAGTC GAAGCCGTAG GCTGAGACGG CACCCTAGGA	180
5	AAGCGAACCA TTCAATACGA AGATnTnATn AAATAGAGAA CAGCAGTAAG ATATTTTCTA	240
	ATTGAAAATT ATCTTACTGC TGTTTTTTAG GGATTTATGT CCCAGCCTCT TACTCTAATT	300
	ATATTCACTA TCAATTAGAC AAAATGGCCA TTTTCAAATA TCACGCGTTG GTTTCTGACC	360
10	TTGGAATATA TTTAT	375
	(2) INFORMATION FOR SEQ ID NO: 3964:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3964:	
05	AAAATGGCCT TGATAGACTT GCTCAATGCA GGGTTGCCAC AAACCAATGA TGCACTTACA	60
25	ATTTTAAATA GATTTTTAAG ACCTTGTTGG TTTTGTACAA TTAATGTGAC ATGACTAGGT	120
	CTTGCACGTT TATATGCATC TTCATTACTG AGTTTTTTGT TGATTTCGTT ATGATTTAAT	180
30	ACGCCTAATT CTTTCATTTG TTGAACCATT TTTATGAAAA TGTAAGCTGT TGCTTCTGTA	240
	TCATAAATGG CACGGTGATG TTGCGTTAAT TCTACGCCAT ATTTTTTAGC CAAGAAATTC	300
	AAACCATGTT TACCATATTC AGTATTAATC GTACGAGGAT AATTCTAAAG TATCGATAAC	360
35	ACCATTCGTT GGATGGTCCA AACCCAAGAC GTTCATATCC	400
	(2) INFORMATION FOR SEQ ID NO: 3965:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3965:	
	ACTITIANT TIGICATGAT GIGCCICCTI ACCGIATGAT GITATICAAA GIAAATIGCI	60
50	TTGCCTGATT TTGCAGACTG ATAAATCGCT TCAAGAATTT TTGTAACTAC CATTGCTTGT	120
	TCCGGTTTCA CAACTGGTTC AGTATCATTT ACAACTGCAT CAATCCAAGC TTTTGCTTCT	180
	TOTAL TARGET CATCACTAC ATTACCTACA TABASCACTOS CGCCTTTCTT TTCCAATTCA	240

	TCAGCACCTG CTTTAGGTTC CTGATAATGA ACATTTTGGC CTCATCCACT TCTAAAnGAA	360
	TTAATCGCCC AAGNGGGATT CCAAAAAGGA n	391
6	(2) INFORMATION FOR SEQ ID NO: 3966:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 398 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3966:	
	CGCTATCAGG TATTGTTTCA ACAATTTCAT TAACATATCG TGAAATATCA TTTTGAGGGA	60
	TTCTAACAGA AGTTTCTATT GGTAGTGTAG TTGGGGCATG TTATAATTTT TATACATAAG	120
20	GCACCTCGTT AATTTAGTTT AGTGGTATTT ATTAAATTAT AAGAAGGGAC CCAACACAGA	180
	AAATTCATTT TATTGAATTT TACATTTATG TGCAAGTTGG GCAAAGTGTC TTATTTTTTA	240
25	AAAGTATTTC AAAGTAAAAT TACATGTTAA TACGTALATA ATGGCGAGAC TCCTGAGGGA	300
25	GCAGTGCCAG TCGAAGCCAA GGCTGAGACG GCACCCLAGG AAAGCGACnC ATTCAATACG	360
	AAGATTGTAT AAATAGAGAA CAGCAGTAAG ATATTTTC	398
30	(2) INFORMATION FOR SEQ ID NO: 3967:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3967:	
40	GCTATAGAAA AAATAAAATC ACAAGTTACG ATTAGCGTAC TTGATGGGGA GTGAAAATAA	60
	TGAGAGTAAC AGAGTTATTA ACAAAAGATA CAATAGCAAT GGATTTAATG GCAAATGACA	120
45	AAAATGGTGT TATTGATGAG TTAGTAAATC AATTAGACAA AGCAGGTAAA TTAAGTGATG	180
	TCGCGTCATT TAAGGAAGCG ATTCACAATC GAGAATCACA AAGTACAACT GGTATCGGCG	240
	AGGTATTGCC ATTCCACATG CCAAAGTGGC CGCAGTTGAA GTCACCAGCT ATTGCGTTTG	300
50	GTAAATCTAA AGCAGGCGTG GATTATCAAN TTTGGNTATG CAACCAGCAC ACTTNTTCTT	360
	TGTGGTTGGC AGCG	374
55	(2) INFORMATION FOR SEQ ID NO: 3968:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3968:	
10	ACCCCGGCAC TATAAAAATG GAGCAGAAGA CGGGATTCGA ACCCGCGACC CCAACCTTGG	60
	CAAGGTTGTA TTCTACCGCT GAACTACTTC TGCATATGCG GGTGAAGGGA GTCGAACCCC	120
	CACGCCGTAA nCTGAGGATC CTAAGTCTAG TGCGTCTGCC AATTCCGCCA CACCCGCAAA	180
15	TGGTGAGCCA TAGAGGATTC GAACCTCTGG ACCCTCTGAT TAAAAGTCAG ATGCTCTACC	240
	AACTGAGCTG AATGGCTCTT CCATGGTGCC GGCCAGAGGA CTTGAACCCC CAACCTGACT	300
	GGATTACAAG TCAGTTGCTC TACCAATTGA GCTAAGGCCG GGCAATATGT AAGAATAAAT	360
20	GGTGGAGAAT GACGGGTTTC GAANCGCCGA CCCTCTGCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3969:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3969:	
35	GCGAGTTGGG GTGTGGGCCC CAACATAGAG AAATTGGATT CCCAATTTCT ACAGACAATG	60
	CAAGTTGGCG GGGCCCCAAC ACAGAAGCTG ACGAAAAGTC ATTANCAATA ATGTGCAAGT	120
	TGGCGGGGCC CCAACACAGA AGCTGACGAA AAGTCATTAN CAATAATGTG CAAGTTGGCG	180
40	GGGCCCCAAC ACAGAAGCTG GCGGAAAGTC AGCTTACAAT AATGTGCAAG TTGGGGTGGG	240
	ACAACGATAA AGTAATACTT TTTCTATAGA AATTAGTATT TCTTATGCAT GAGTTTTACT	300 360
	CATGTATTCC TATTTTTAAG TACACATTAG CTGTGGCTAA TGTTTAAGAC CCACTACATA	400
45	ATAAATCATT AGTGGCTCTn TATCATTTCT GTCCCACTCC	400
	(2) INFORMATION FOR SEQ ID NO: 3970:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 419 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GATAAGATCA GCCGAAAATG GATGGTGTTA AGAGCGTTAC TTGGTTTGGC GGTATGCTTA	60
_	TTTTTAATGG CATTGTGTAC GACACCATTA CAGTTTGTAC TTGTGAGGTT ATTGCAGGGA	120
5	CTATTTGGTG GTGTTGTTGA TGCATCAAGT GCGTTTGCGA GTGCAGAGGC GCCACTGAKA	180
	GATCGTGGAA AGLATTAGGA GACTGCAAAT TCAGTCAGCG CAGGLCTCTT GTGGGGCCAT	240
10	TAATTGGCGG TGTTACAGCT TCGATATTAG GTTTTAGTGC GTTACTGATG AGTATTGCCG	300
	TTATTACTTT TATTGTCTGT ATTTTCGGTG CATTAAAATG ATTGAAACGA CACATATGCC	360
	ARAATCACAA ACACCAAATA TTAATAAAGG TnTTCGCCGT TCCAnTTnCA ATGTCTAAT	419
15	(2) INFORMATION FOR SEQ ID NO: 3971:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3971:	
25	AAACTTGGGA GACTTCAATA ACAGATTTAG GTTTATCTAA AAATCAGGCA TATAATTTCT	60
	TAATTACATC TAGTCAAAGA TGGGGCCTTA ATCAAGGGAT AAATGCAAAT GGCTGGATGA	120
30	GAACTGACTT GAAAGGTTCA GAGTTTACTT TTACACCAGA AGCGCCAAAA ACAATAACAG	180
	AATTAGAAAA AAAAGTTGAA GAGATTCCAT TCAAGAAAGA ACGTAAATTT AATCCGGATT	240
	TAGCACCAGG GACAGAAAA GTAACAAGAG AAGGACAAAA AGGTGAGAAG ACAATAACGA	300
35	CACCAACACT AAAAAATCCA TTAACTGGAG TAATTATTAG TAAAGGTGAA CCnnAAGGAG	360
	GGGTTTCCAn AGTCCGTTAT G	381
40	(2) INFORMATION FOR SEQ ID NO: 3972: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3972:	
50	GGGTTCAGAA CGTCGTGAGA CAGTTCGGTC CCTATCCGTC GTGGGCGTAG GAAATTTGAG	60
	AGGAGCTGTC CTTAGTACGA GAGGACCGGG ATGGACATAC CTCTGGTGTA CCAGTTGTCG	120
<i>55</i>	TGCCAACGGC ATAGCTGGGT AGCTATGTGT GGACGGGATA AGTGCTGAAA GCATCTAAGC	180

TCGANGACTT AATCARAATA AATGTTTTGC GACCARATCA CTTTACTTAC TATCTAC GAATGATAAA TACATCATAT GCTGGGGCCA TACCAAGGGG (2) INFORMATION FOR SEQ ID NO: 3973: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) Type: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3973: TCTTTTAATT ACGTAATGGC TTACCAGTTT TTAACATATG TGCAATTCTT TCATAT TGATAAATGT ATTCTTGGT AAATCACCAC CCGCTARAAT TGTGGCGATA TTTAAG TATGATAATC ATGGTCGCTA ATAAAATGAC CCCGTCTTG CGCATCTAAT TGTCCT TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTC GCACGTGTGA GCGCAACTTC GACACGATGG TGCCTG 10 INFORMATION FOR SEQ ID NO: 3974: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) Type: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGGTC ACCTTGTTA AAATCAAGGT TGTAATGTT TCCTTGTGTC ACGATA 40 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGTT AACTCTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTT AACTCTTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTT AACTCTTGCA TGATTGCGGA TGTAGTCTAA CACAAGTTG ATTAAT TAACAGTGT TAAACCCATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGAA TCACCTTGGTA ANGGCACTTC TGAATAAATG GTGGTTAACT	(GANGTTAATA GGTTCGAGGT GGAAGCATGG TGACATGTGG	AGCTGACGAA	TACTAATCGn	300
GAATGATAAA TACATCATAT GCTGGGGCCA TACCAAGGGG (2) INFORMATION FOR SEQ ID NO: 3973: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3973: TCTITTAATT ACGTAATGGC TTACCAGTTT TTACATATG TGCAATTCTT TCATAT TGATAAATGT ATTCTTGGT AAATCACCAC CCGCTAAAAT TGTGGCGATA TTTAAGG TATGATAATG ATGGTCGCTA ATAAAAGCCAA TTATCTCCAA CGATTGAATG TACGGT TCAATGCTTT GAAGTCTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATTA TTGTTTCTGC TTCATATTC GCACGTGTGA GCGCAACTTC GACACGNTGG TGCCTG 10 NGAAAATAAA CCGGANCCNG GGATCCACGG GAAATAACCC (2) INFORMATION FOR SEQ ID NO: 3974: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGTTC ACCTTGTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATA CACCTTGTTT AACTCTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTT AACTCCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAGG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACCTTTACCG TTGAAATGGT GCACGAA TCACCTTGTA ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTTT TCCGCT	•	TCGAnGACTT AATCAAAATA AATGTTTTGC GACCAAATCA	CTTTACTTAC	TATCTAGTTT	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3973: TCTTTTAATT ACGTAATGC TTACCAGTTT TTAACATATG TGCAATTCTT TCATAT TGATAAATGT ATTTCTTGGT AAATCACCAC CCGCTAAAAT TGTGGCGATA TTTAAG TATGATAATG ATGGTCGCTA ATAAAAGCCAA TTTTCTCCAA CGATTGAATG TAACGT TCAATGCTTT GAAGTCTTCA CCTAAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTC GCACGTGTGA GCGCAACTTC GACACGATGG TGCCTG GO NGAAAATAAA CCGGANCCNG GGATCCACGG GAAATAACCC (2) INFORMATION FOR SEQ ID NO: 3974: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGTTC ACCTTGTTA AAATCAAGGT TGTAATGTT TCCTTGTGTC ACGATA CACCTTGTT AACTTCTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTT AACTTCTTGCA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAGG ATTGCATGTT TTGTTGGGAA AATCATTGT TACTTTACCG TTGAAATGGT GCACGAA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCCACCA TCCATTTTTT TTCGCT	(GAATGATAAA TACATCATAT GCTGGNGCCA TACCAAGGGG			400
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3973: TCTTTTAATT ACGTAATGGC TTACCAGTTT TTAACATATG TGCAATTCTT TCATAT TTTTAGATTT TAGTAAGTCA ATAAAGCCAA TTTTCTCCAA CGATTGAATG TAACGT TGATAAATGT ATTTCTTGGT AAATCACCAC CCGCTAAAAT TGTGGCGATA TTTAAG TATGATAATC ATGGTCGCTA ATAAAATGAC CCCGTCTTTG CGCATCTAAT TGTCCT TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTTC GCACGTGTGA GCGCAACTTC GACACGNTGG TGCCTG 10 INFORMATION FOR SEQ ID NO: 3974: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGTTC ACCTTGTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATA 45 GCGTAATATC ACTCTTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTTT AACTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAGGT ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGAA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTTT TTCGCT		(2) INFORMATION FOR SEQ ID NO: 3973:			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3973: TCTTTTAATT ACGTAATGC TTACCAGTTT TTAACATATG TGCAATTCTT TCATATT TGATAAATGT ATTCTTGGT AAATCACCAC CCGCTAAAAT TGTGGCGATA TTTAAG TATGATAATC ATGGTCGCTA ATAAAATGAC CCCGTCTTTG CGCATCTAAT TGTCCT TCAATGCTTT GAAGTCTTCA CCTAAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTTC GCACGTGTGA GCGCAACTTC GACACGNTGG TGCCTG 30		(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double			
TCTTTTAATT ACGTAATGGC TTACCAGTTT TTAACATATG TGCAATTCTT TCATAT TTTTAGATTT TAGTAAGTCA ATAAAGCCAA TTTTCTCCAA CGATTGAATG TAACGT TGATAAATGT ATTTCTTGGT AAATCACCAC CCGCTAAAAT TGTGGCGATA TTTAAG TATGATAATC ATGGTCGCTA ATAAAATGAC CCCGTCTTTG CGCATCTAAT TGTCCT TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTTC GCACGTGTGA GCGCAACTTC GACACGNTGG TGCCTG 10					
TITTAGATIT TAGTAAGTCA ATAAAGCCAA TITTCTCCAA CGATTGAATG TAACGT TGATAAATGT ATTTCTTGGT AAATCACCAC CCGCTAAAAT TGTGGCGATA TITAAG TATGATAATC ATGGTCGCTA ATAAAAATGAC CCCGTCTTTG CGCATCTAAT TGTCCT TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTTC GCACGTGTGA GCGCAACTTC GACACGNTGG TGCCTG 10		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3973:		
TTTTAGATTT TAGTAAGTCA ATAAAGCCAA TTTTCTCCAA CGATGAAG TAACGT TGATAAATGT ATTTCTTGGT AAATCACCAC CCGCTAAAAT TGTGGCGATA TTTAAG TATGATAATC ATGGTCGCTA ATAAAATGAC CCCGTCTTTG CGCATCTAAT TGTCCT TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTC GCACGTGTGA GCGCAACTTC GACACGNTGG TGCCTG 10	•	TCTTTTAATT ACGTAATGGC TTACCAGTTT TTAACATATG	TGCAATTCTT	TCATATGATT	60
TATGATAATC ATGGTCGCTA ATAAAATGAC CCCGTCTTTG CGCATCTAAT TGTCCT TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTTC GCACGTGTGA GCGCAACTTC GACACGATGG TGCCTG 30	•	TTTTAGATTT TAGTAAGTCA ATAAAGCCAA TTTTCTCCAA	CGATTGAATG	TAACGTTGAT	120
TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTTC GCACGTGTGA GCGCAACTTC GACACGNTGG TGCCTG 10	•	TGATAAATGT ATTTCTTGGT AAATCACCAC CCGCTAAAAT	TGTGGCGATA	TTTAAGGCAA	180
TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG TCTAGGATTC GGAATA TTGTTTCTGC TTCATATTTC GCACGTGTGA GCGCAACTTC GACACGNTGG TGCCTG 10		TATGATAATC ATGGTCGCTA ATAAAATGAC CCCGTCTTTG	CGCATCTAAT	TGTCCTTGGA	240
10 INFORMATION FOR SEQ ID NO: 3974: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGTTC ACCTTGTTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATA CACCTTGTTT AACTTCTTGA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTT TTCGCT		TCAATGCTTT GAAGTCTTCA CCTAAAGCGA TATATTGATG	TCTAGGATTC	GGAATATAGT	300
(2) INFORMATION FOR SEQ ID NO: 3974: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGTTC ACCTTGTTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATA GCGTAATATC ACTCTTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTTT TTCGCT	•	TIGITICIGC TICATATITC GCACGIGIGA GCGCAACITC	GACACGnTGG	TGCCTGGATT	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGTTC ACCTTGTTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATA GCGTAATATC ACTCTTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTTT TTCGCT	1	nGAAAATAAA CCGGANCCNG GGATCCACGG GAAATAACCC	:		400
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3974: TGCCATGTTC ACCTTGTTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATA GCGTAATATC ACTCTTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTTT TTCGCT		(2) INFORMATION FOR SEQ ID NO: 3974:			
TGCCATGTTC ACCTTGTTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATA GCGTAATATC ACCTTGTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTTT TTCGCT		(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		·	
TGCCATGTTC ACCTTGTTTA AAATCAAGGT TTGTAATGTT TCCTTGTGTC ACGATA GCGTAATATC ACTCTTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTT TTCGCT)	() CROMENCE DECORIDATION, SEC ID NO.	3974 •		
GCGTAATATC ACTCTTGCA TGATTGCGGA TGTAGTCTAA ATCAAAGTTG ATTAAT CACCTTGTTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTT TTCGCT				ACGATAATAG	60
CACCTTGTT AACTTCTTGA CCTTCCTCAA CATGTAAAGT AAAGCCTTCT CCGTTT TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTT TTCGCT					120
TAACAGTGTC TAAACCGATG TGGATTAATA GTTCTAAACC ACTATCTGAA TACAAG 50 ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTT TTCGCT	•				180
ATTGCATGTT TTGTTGGGAA AATCATTTGT TACTTTACCG TTGAAATGGT GCACGA TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTT TTCGCT					240
TCACCTTGTG ANGTTTTTGG ATAGCGATAC CGTCACCCCA TCCATTTTT TTCGCT					300
·					360
CACTTGGATC ANGGCACTTC TGAATAAATG GTGGTTAACT				IICGCIGAAA	400
55		CACTTGGATC ANGGCACTTC TGAATAAATG GTGGTTAACT	L		-200

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 372 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3975:	
	CCTTTGCAGC GCCTCCGTTA CCTTTTAGGA GGCGACCGCC CCAGTCAAAC TGCCCGCCTG	6
	ACACTGTCTC CCACCACGAT AAGNGCGGGN GTTTAGAAAG CCAACACAGC TAGGGTAGTA	120
15	TCCCACCAGC GCCTCCACGT AAGCTAGCGC TCACGTTTCA AAGGCTCCTA CCTATCCTGT	180
	ACAAGCTGTG CCGAATTTCA ATATCAGGCT ACAGTAAAGC TCCACGGGGT CTTTCCGTCC	240
	TGTCGCGGGT AACCTGCATC TTCACAGGTA CTATGATTTC ACCGAGTCTC TCGTTGAGAC	300
20	AGTGCCCAAA TCGTTAACGC CTTTCGTGCG GGTCGGAACT TACCCGACAA GGANTTTCGC	360
	TAACTTAGGA CC	372
25	(2) INFORMATION FOR SEQ ID NO: 3976: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 395 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ. ID NO: 3976:	
35	AGGGAATCGA ATTITCTITC TCTTCCTnCG GGTACTAAGA TGTTTCAGTT CTCCGGGTGT	60
	GCCTTCTGAT ATGCTATGTA TTCACATATC GATAACATGA CATAACTCAT GCTGGGTTTC	120
40	CCCATTCGGA AATCTCTGGA TCAAAGCTTA CTTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AAATAACTTA	240
	ATCTATGTTT CCACCATTTT TATAAGTCAA ACGCTCACAT ACGGCTTCGT TTTCATTATT	300
45	TTAAAGCTCA TTTACATAAG TAAACTCTGC TTTAAATGAT TTAACTCATT GTCTGCTAAA	360
	ACGGTTTnTT TTATGAAAAG GTTTGAAACG GGTTn	395
	(2) INFORMATION FOR SEQ ID NO: 3977:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3977:	
	TTGGTCCCAA ACCAAGTGCT CTACCAAGCT GAGCTACTTC CCGTATAATT AACGCGCCCG	60
5	ATAGAGTCGA ACCCATAACC TCTTGATCCG TAGTCAAACG CTCTATCCAA TTGAGCTACG	120
	GGCGCATATG TTTTTATTGA AAATGGTGCC GAGGACCGGA ATCGAACCGG TAGTNNTTCA	180
10	CTCACGCAGA TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAT	240
,,	GGAGCAGAAG ACGGGATTCG AACCCGCGAC CCCAACCTTG GCAAGTTGTT ATTCTACCGC	300
	TGAACTACTT CTGCATATGC GGGTGAAGGG AGTCGAACCC CCACGCCGTA GGCTTAGATC	360
15	CTTAAGTCTA AGTGCGTCTG GCCAATTTCC GCCAnACCCG	400
	(2) INFORMATION FOR SEQ ID NO: 3978:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3978:	
	AAGTGGTTAA ATATTATAGA AAACATCAAA GGATGTTAAG AAATACAATT TATTACCCAG	60
30	CATTTAATAA TGGTGCTATA GAAGGAATTA ATAATAAGAT AAAATTAATC AAGTGAATTT	120
	CTTTTGGTTA CAGAAATTTC AACAACTTTA AAGCACGTAT AATGATGATT TTCAGCTTGT	180
	ACAAAGGAGA AAAAAAGAAG ACAACCAAGC CCAATAATGG ACTGGCCGCC TAATAATAAA	240
35	AGCTCTAAAA GTTGTATTTT AAAAATAGTT CTTTAAATTA TATACCCACC ACATTTGGTG	300
	GAGGAACCTA AAAAAAGCA CTTCCCAAAA ATGGGAAAGT GCAGTHAGTG GAGCCATAGA	360
	GGATTCCGAA CCTCGGACCC TCnGAnT	387
40	(2) INFORMATION FOR SEQ ID NO: 3979:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3979:	
	TGGAGCAGAA GACGGGATTC GAACCCGCGA CCCCAACCTT GGCAAGGTTG TATTCTACCG	60
	CTGAACTACT TCTGCATATG CGGGTGAAGG GAGTCGAACC CCCACGCCGT AAnTTAGCAT	120

	CGAACCTCTG GACCCTCTGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGCTCTT	24
	CCATGGTGCC GGCCAGAGGA CTTGAACCCC CAACCTACTG ATTACAAGTT CAGTTGCTCT	30
5	ACCAATTGAG CTAGGCCGGn CAATATGTAA GAATAAATGG TGGAGAATGA CGGGTTTCGA	36
	ACCGCCGAAC CCTCTGCTTG THAAGGGCAG ATGGCTCHTC	400
	(2) INFORMATION FOR SEQ ID NO: 3980:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3980:	
20	TTACCACGTA TTTAGGTTTC TTTGGTGGCT CTAGATTTGT CCCTATTGTC ACAGCATTTG	60
	CCGCAATCIT TTTAGGTGTA TTGATGTTTT TCATTTGGCC AAGCATACAA GCCGGCATTT	120
	ATCATGTTGG TGGATTTGTA ACGAAAACAG GTGCCATCGG TACTTTTGTT TATGGCTTCA	180
25	TCTTAAGATT GTTAGGTCCA CTCGGTTTAC ACCATATTTT TTACTTACCG TTTTGGCAGA	240
	CGGCACTTGG TGGTACTTTA GAAGTCAAAG GGCACTTAGT TCAAGGTACG CAGAACATCT	300
30	TCTTTGCTCA ACTTGGTGAT CCAGATGTGA CGAMTATTAT TCCAGGTGTG TCACGCTTTA	360
	ngtcagccgt tttaatacga ggatgttcgg ctangtggtg	400
	(2) INFORMATION FOR SEQ ID NO: 3981:	
35	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3981:	
	CGACATACGC TGATAAATTA GTTATTAAAC GTAATGGTAA CGTTGTGACG ACATTTACAC	60
45	GTCGCAATAA TACGAGTCCA TGGGTGAAAG AAGCATCTGC AGCAACTGTA GCAGGTATTG	120
	CTGGAACTAA TAATGGTATT ACTGTTGCAG CAGGTACTTT CAACCCTGCT GATACAATTC	180
50	AAGTTGTTGC AACGCAAGGG AAGCGGAGAG ACAGTGTAGT GGATGGAGCA ACGTATAGTT	240
	GGATTTCACA GTTGTCGCAC CACAACCGAA CCAAGCGACT GACTGAAGAT TTGGCAAAAT	300
	GGnCATATTG ATATCACGCC TAATGANTCC ATTCAGGACA TTTAATTAAT CCAACTCAAG	360
55		

(2) INFORMATION FOR SEQ ID NO: 3982:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3982:	
	TTTAGCTGAA GCTTTAACTT ATACAAGTGA ACATCAAATG AACTTTATAG ATCCATTCAA	60
15	TAATGTTCAT ACAATTTCTG GACAAGGTAC GCTTGCTAAA GAAATGCTAG AACAAGCAAA	120
	GTCTGACAAT GTTAACTTTG ATTATCTATT TGCCGCAATT GGTGGTGGCG GTTTAATTTC	180
	AGGTATTAGT ACTTACTITA AAACCTATTC ACCTACCACG AAAATTATAG GTGTTGAACC	240
20	TTCAGTGCAA GTAGTATGTA TGAATCTGTT GTGGTAAATA ATCAGGTAGT CACATTGCCT	300
	AATATCGATA AATTTGTGGG ACGGTGCATC TGTAGCTAGA GTTGGCGATA TTACATTGGA	360
	AATTGCCAAA GAAAAGTAGA GGATTACGTT CCAGTAGAGN	400
25	(2) INFORMATION FOR SEQ ID NO: 3983:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3983:	
	CCACCATTAT TTGTACATTG AAAACTAGAT AAGTAAGTAA AATATAGATT TTACCAAGCA	60
	AAACCGAGTG AATAAAGAGT TTTAAATAAG CTTGAATTCA TAAGAAATAA TCGCTAGTGT	120
40	TCGAAAGACG CGACAAGATT AATAACGCGT TTAAATCTTT TTATAAAAGA AAACGTTTAG	180
	CAGACAATGA GTTAAATTAT TTTAAAGCAG AGTTTACTTA TGTAAATGAG CATTTAAAAT	240
45	AATGAAAACG AGGCCGTATG TGGAGCGTTT GACTTATNAA AAATGGTGGG AAACATAGAT	300
	TCAAGTTATT GAAGGCGCA CGGTGGGATG CCTTGGGCAC TAGNAAGCCG nTGGAAGGAC	360
	GTTACTAACG ACGATATGCC TTGGGGGAGC	390
50	(2) INFORMATION FOR SEQ ID NO: 3984:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3984:	
	GGGCTCTAAC ATATTCTTAA ATTGATCAAA TAGTTCTTGC CTTGTATCTG CAAATGTTTT	60
	GTAGTCTGCA TGCAATGTGA GTGCTTGATG AATTTTGACC ACAAATTCAA ATGTATCAGG	120
10	CGTTTCTTTT ATCCATTTCA ATATATTTCT TTCCGGTTGT ATCGCATAGT ATGTCGCATC	180
	TAATTCGACA ACCGGAAAAT GTCCAGCATA TGTTTTAAGT TTATCGGTTT GGCGTTCTAA	240
	ATCTTCATAT AATGAATAGT GATCACCCCA ACCTGTTAAT CCGATGTTTT ATCATATATA	300
15	TCACCAATGT CATCATACCA TATAACTTTT ATCATMATCA TTTCAGCGAA CTTTAGGTTT	360
	GnAGGTTTT TGGCCTGGAT TAAANATCTT TCGGGCGGAT	400
20	(2) INFORMATION FOR SEQ ID NO: 3985: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3985:	
30	GCATTTGCTT ATATCTTTAA AAAAGATTTT GAAGATATTG AAAGAAAAAC TAAAGAAATT	60
	ATTTCTGATA TTGAAAGTAA AAATAACTAA TAACATTTAG AGGCTGGGAC ATAAATCCCT	120
	AAAAAnCAGC AGTAAGATAA TTTTCAATTA GAAAATATCT TACTGCTGTT CTCTATTTAT	180
35	ACAATACTTC GTATTGAAAT GGCTTCGCTT TCCTAGGGTG CCGTCTCAGC CTTGGTCTTC	. 240
	GACTGGCACT GCTCCCTCAG GAGTCTCGCC ATTGAATACT ACGTATTAAC ATGTHAATTT	300
40	TACTTTGGAA ATACTTTTAA AAAATAAGAC ACTTTGCCCA ACTTGGCACA TAAATGTTAA	360
	AATnCAATGA AATGAATTTT CTGTGTTGGG TCCCCTnCTA	400
	(2) INFORMATION FOR SEQ ID NO: 3986:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3986:	:
	TTCGTTCAAA GTCATCTAGG TCACATTATT CTATTTGGGA TTCTTAGTGC TGTTCTTATT	60

	ATGACAATAC AAAACGTAAA AAAGTCGCAG TGATCGGTAG TATTTTAGTA TTTATCATTA	180
	GTATTCCAGC AACCTTATCT TTTGGTATCT TAAAAGATGT AAGATTCGGT GCGGGAACGA	240
5	TTTTTGATAA TATGGATTTC ATCGTTTCGA ATGTATTGAT GCCATTAGGC GCATTAGGTA	300
	CTACGCTTGT CGTAGGnCAA TTATTAGnTA AAAAATTATT ACANCAATAT TTTGGTAAAG	360
10	Ancgattag gattattcag tggttggtat tacttaatta	400
	(2) INFORMATION FOR SEQ ID NO: 3987:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3987:	
	GGATTCGAAC CCCCGCGAGC CGTTAAGCCC CTGTCGGTTT TCAAGACCGA TCCCTTCAGC	60
25	CGGACTTGGG TATTCCTCCA AAATTATATG GACCTTGCAG GACTCGAACC TGCGACCGAA	120
?5	CGGTTATGAG CCGTTAGCTC TAACCAACTG AGCTAAAGGT CCTAAATATA ATTTTACAAC	180
	TAATAAATAG TGGCGGTGGA GGGGATCGAA CCCCCGACCT CACGGGTATG AACCGTACGC	240
30	TCTAGECAGC TGAGCTACAC CGCCTTATAT AGTTTGTAAA TAATATGGTG GGGACTARCG	300
	GGATCGGAAC CGCTGGACCT CCTGCGTGGC AAAGCAGGCC GCTCTCCCAG CTGGAGCTAA	360
	Gnececata ataathacag tatatenggg aagacaggat	400
35	(2) ÎNFORMATION FOR SEQ ID NO: 3988:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3988:	
•	CAGCTGATAA ACAAGTTGAT CTGGTCCCGA TTTGTTGGGT AAACGGTTGA TTAATGNAAA	60
	ATGTTCGCCG AAGGATTCAT AATCCGAGAG GTCTAATTCA ACGTATCATT AATCAAGATG	120
50	CGCCTATTTA TCAATCTGAA ACAAATTATC ATTCGAAAGA TCGCGGTAAG TCTAAAAATG	180
	GTATTCAAAT GGTGTATCAA CATTTAATGA ACGGTGTATC GTTTATGGNT CCTTTTATCG	240
	TAGTTGGTGG ACTCCTTATC GCCATCGCGC TGACTCCTAG GCGGTGAACG ACCATCCAAA	300
**		

	CCTTTAAATT AATGGTCCCA TACCAGNCGG GATAAACGCT	400
_	(2) INFORMATION FOR SEQ ID NO: 3989:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3989:	
15	CCAGAGATTT CCGAATGGGG GAAACCCAGC CATGAGTTAT GTCATGTTAT CGATATGTGA	60
	ATACATAGCA TATCAGAAGG CACACCCGGA GAACTGAAAC ATCTTAGTAC CCGGAGAAGA	120
-	GAAAGAAAAT TCGATTCCCT TAGTAGCGGC GAGCAAACGG GAAGAGCCCA AACCAACAAG	180
20	CTTGCTTngn GGTnTGTAGG ACACTCTATA CGGATTACAA AGGACGACAT TAGACGAATC	240
	ATCTGGAAAG ATGAATCAAA GAAGGTAATA ATCCTGTAGT CGAAAATGTT GTCTCTTG	300
	AGTGGATCCT GAGTACGACG GAGCACGTGG AAATTCCGTC GGAATCTGGG AGGACCATCT	360
25	CCT	363
	(2) INFORMATION FOR SEQ ID NO: 3990:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3990:	
•	TTTCCAAGAA CATGAGCCTG TACAGTTAAC ACCATGTnTG nTTCTTACTT CTTTATCGTG	. 60
40	GCTCCAACGT TCTCTGTACA TTTTTTCCCA TTCTCTACTT TTACTTTCTA GGATCGACCA	120
	ATTCCCATTA AATTTTTCTG TTGGCTTAAA GAAATTCAAT CCAAATTTTC CCATATTTAT	180
	ATCCTCCTAC GTATAAAAAT ACGATGTGTA GATGTCGTGT TTTTAAATAC TTTAAAATGC	240
45	CCAAGACTAT TGCTTTAATT AGATTGTACA TTTTTTCACA AACATAAAAT ATTAGGGAAT	300
	CACCTAATTA CTTAAGGnAT TCCCTATCAA TAACGGGATT TCATTGAAAT AATACACAAT	360
50	CAGTANGGTC AGCCTAATGC CAGGCTAAAT CGTTCAAATT	400
-	(2) INFORMATION FOR SEQ ID NO: 3991:	
	•	
<i>5</i> 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3991:	
	AAAGTGGTTA AATATTATAG AAAACATCAA AGGATGTTAA GAAATACAAT TTATTACCCA	6
10	GCATTTAATA ATGGTGCTAT AGAAGGAATT AATAATAAGA TAAAATTAAT CAAGTGAATT	12
.•	TCTTTTGGTT ACAGAAATTT CAACAACTTT AAAGCANGTA TAATGATGAT TTTCAGCTTG	18
	TACAAAGGAG AAAAAAAGAA GACAACCAAG CCCAATAATG GACTGGCCGC CTAATAATnn	24
15	GAGCTCTAAA AGTTGTATTT TAAAAATAGT TCTTTAAATT ATATACCCAC CACATTTGGT	300
	GGAGAACCTA AAAAAAAGCA CTTCCCAAAA ATGGAAAGTG CAAGTAGTGA GCCATAGAGG	360
	ATTCGAACCT CTGACCCTCT GATTAAAAGT CAGATGCTCT	400
20	(2) INFORMATION FOR SEQ ID NO: 3992:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3992:	
	AGTGTATGGT TATCAAAGAT TTGATACGAC GGTCATTATT ATTACCGTTA TTGTATTAGT	- 60
	CATTATTGTC CAAGTGATTC AAACGCTAGG GAATGTTCTA GCTAGATTCA TACGThGACA	120
35	TTAATGATAT ATAGTGAAGA TTTTGAAAGG AATTGATAGA ATGAAAAGAT TGATTGGGTT	180
	AGTTATCGTA GCACTTGTAT TAATTAGCAG CGTGTGGTGG TAACAATGAT AAAAAAGTAA	240
40	CAATTGGTGT CGCATCAAAT GACACTAAGG CTTGGGGAGA AGGTTAAAAG AATTAGCTAA	300
	AAAAAGATGG ATnTTGATGT GGGAGATTAA GCACTTCCTC nGGATTACAA TTTACCGGAT	360
	TAAAGCCTTn AAATGGATGG TGATATTGAT AATGAATGCC	400
45 50	(2) INFORMATION FOR SEQ ID NO: 3993: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3993:

	TTATCAGAAG AACAATTCGA CATTTTACTG AATCATCCAT TAATCGATGA AGAAGTAGCC	120
5	AATAGTTTAA TTGAAAATGT CATCGCGCAA GGNGCATTAC CCGTTGGATT ATTACCGAAT	180
Ü	ATCATTGTGG ACGATAAGGC ATATGTTGTA CCTATGATGG TGGAAGAGCC TTCAGTTGTC	240
	GCTGCAGCTA GTTATGGTGC AAAGCTAGTG AATCAGACTG GCGGATTTAA AACGGTATCT	300
10	TCTGAACGTA TTATGATAGG TCAAATCGTC TTTGATGGCG TTGACGATAC TGAAAAnTnT	360
	CCGCCGGCAT TGAGAGCCTT AGA	383
	(2) INFORMATION FOR SEQ ID NO: 3994:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3994:	
	GGTACTATGA TITCACCGAG TCTCTCGTTG AGACAGTGCC CAAATCGTTA CGCCTTTCGT	60
25	GCGGGTCGGA ACTTACCCGA CAAGGAATTT CGCTACCTTA GGACCGTTAT AGTTACGGCC	120
	GCCTTTACTG GGGCTTCGAT TCGTAGCTTC GCAGnnAAAC CNACTCCTCT TAACCTTCCA	180
30	GCACCGGGCA GGCGTCACCC TGATACATCA CCTTACGGTT TAGCAGAGAC CTGTGTTTTT	240
	GATAAACAGT CGCTTGGGCC TATTCACTGC GGCTCTTCTG GGCGTTAACC CTGAAAGAGC	300
	ACCCCTTCTC CCGAATTACG GGGTCATTTG CCGATTCCTT AACGAGATTC GCTCGCTCAC	360
35	CTTAGA	366
	(2) INFORMATION FOR SEQ ID NO: 3995:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3995:	
	AGATATTITA CATGTGAATC AAGTAGGTAT TCATGATAAT TTCTTTGAAT TAGGTGGCCA	60
<i>50</i>	TTCATTAAAA GCAACGTTAT GnTGAATCGG ATAGAGGCAT CTACTGGGAA ACGATTACAA	120
	ATTGGTGATT TATTACAAAA GCCAACTGTA TTTGAACTAG CACAAGCGAT TGCTAAGGTT	180
	CAAGAACAAA ACTATGAAGT GATTCCAGAA ACTATAGTTA AAGATGATTA TGTGCTGAGC	240
55		

GTACCTTTTT TATGGCGGTT ATMCATCAGA ACTTAATGTA GCTCAMTGCG ACAAGCATG	359
(2) INFORMATION FOR SEQ ID NO: 3996:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3996:	
CAATTATTGG TATTCAACTT AAAGATCATG ATGATTTAAT ACAACTCAAA CAACGTTAAA	. 60
ATCATTTCGA TCCTTCCAAT ATTTATATTA ATGAAAATAA GATGTTATAT TCATTGTTAA	120
TTTAACACAT AGTAAGAAAA ACAGTCATAA ATTGATTTCT AATTGAAATC ATCTTATGAC	180
TGCTTTTTAT TATACTTTAC ATTTCTCGTT TCGTCAGATT CAAACGTTTT CACTTCGCCA	240
AGCCATCTTT CTTTGTGTTT GCTTTTATTT TGACGTTTTA GACATAAAAA AAGAGACCTT	300
GCGGTCTCAA ATGCGGCTCA TCGCATCCAC TTTTTGCCTG GGCAACGTTC TACTCTAGGC	360
GGAANGTAAG TGGGACTTAC CATCGACGGN TAAGGGGCTT	400
(2) INFORMATION FOR SEQ ID NO: 3997:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3997:	
GATACTACCC TAGCTGTGTT GGCTTTCTAA CCCGCACCAC TTATCGTGGT GGGAGACAGT	60
GTCANGCGGG CAGTTTGACT GGGGCGGTCG CTCCTAAAAG GTAACGGAGG CGCTCAAAGG	120
TTCCCTCAGA TGGTTGGAAA TCATTCATAG AGTGTAAAGG CATAAGGGAG CTTGACTGCG	180
AGACCTACAA GTCGAGCAGG GTCGAAANCG GACTTAGTGA TCCGGTGGTT CCGCATTGAA	240
GGGCCATCGC TCAACGGATA AAAGCTACCC CGGGGATAAC AGGCTTATCT CCCCCAAGAG	300
TTCACACGAC GGGGAGGTTT GGCACCTCGA TGTCGnCTCA TCGCATCCTG GGGCTGTA	358
(2) INFORMATION FOR SEQ ID NO: 3998:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3998:	
6	TAGGAGGAAT TTATATGACA TTTGAAAAAG AAACGGTCTT AAAAACATTA TTTCCTGAAG	60
	ATGTACTTAG TATTGCTAAA GGTTTAACAG ACGGTGAAGT CGAATTTTTA CAACAAGTAG	120
	ATTCATTGCT AGAAAGTAAG TACCGTGAAA ATATTAATCA ACATTGGATA GACGCTACTG	180
10	TACCCGAGGA CTATTITAAA GATCTGGGAG AYTTAAATTA TTTTAACAYT CCATTACTTT	240
	ACAAGGATCG TCCAAACGCC AAAATGCCTA GTCAnCTATT TCAGTTTTTC ATGTCTTACC	300
15	TACTCGCGCG ATTTGATATT TCCTTAGCTA CCCTACTCGG TGTTCACCAA GGTTAGGGCA	360
15	TAACACTTTC TATTTCGGAG GTAGCAAAGA CAAATTGCGA	400
	(2) INFORMATION FOR SEQ ID NO: 3999:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 398 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3999:	
	CGCCCCTTAG TGCTGCACTA ACGCATTAAG CACTCCGSCT GGGGAGTACG ACCGCAAGTG	60
30	AAACTCAAAG GAATTGACGG GGACCCGCAC AAGNGTGGAG CATGTGGTTT AATTCGAGGC	120
	AACGGLAGAA CCTTACCAAA TCTTGACATC CTTTGACAAC TCTAGAGATA GAGCTTTCCC	180
35	CTTCGGGGAC CAAAGTGACA GGTGGTGCAT GGTTGTCGTC AGCTCGTGTC GTGAGATGTT	240
	GGGTTAAGTC CCGCAACGAG CGCAACCCTT AAGCTTAGTT GCCATCATTA AGTTGGGCAC	300
	TCTAAGTTGA CTGCCGGTGA CAAACCCAGG AAGGTTGGGG ATGACGTCAA ATCATCATGC	360
40	CCCTTATGGn TTTGGGTTAC ACAAGTGGTT ACAATGGG	398
	(2) INFORMATION FOR SEQ ID NO: 4000:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4000:	
	TGTTCTTGCA ACGCTATTTA GTATCAGGTT TAACAACAGG TGCGACAAAA GGTTAGTTTG	60

	GACGTTATGA TGACGATTAA AGTTGGAATC ATTGGGTGTG GTGGTATTGC GAATGGCAAG	180
	CACATGCCAA GTTTACAAAA AGTTGAAAAT GTTGAAATGA TCGCATTTTG TGACGTAGAC	240
5	ATTTCGAAAG CAGCGAGTGC GGCAGAAGCA TACGGAACTG ACAATGSCAA AGETTATGAT	300
	GATTACMAAG CATTGTTAAA AGATGACACG ATTGATGTTA TCCATGTTTT GTACCCCCAA	360
	TGGACCCCGC ATTGTGG	377
10	(2) INFORMATION FOR SEQ ID NO: 4001:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4001:	
	TCGGGTTCTC AAATCATCGA ACATAACAAA AGAAGCTAAG CAACATGTAG GCCGTTGTCA	.60
	CTTAACTICT TGTTTTTCCG ATGACAGCTT CTATTTAGAG AATGTCATGA TTATTTTATA	120
25	TTCACTTCAA TGTTATCAAT ATTAGTGCCA TCTATGACAT CTGCCATGCG ATTTTCTTGT	180
	AATTTTTGT GCAATTCAAA CGTGTACTTT CCACCGTTTT TCATTTTAAT AACAATTTTA	240
	CCTGAACCAA CGTTACCGTA CAGATTATTT TTTTCAATAA GTGTTTTCTC AATTTAAAAT	300
30	CAAGTTCTTT CAAGGAAATC TGTTCTTTAG TAATCTTGAA TTCTGAAACA TCATGGGnGA	360
	TTGTACCGTA TNATCTTNCC TAGTAAT	387
35	(2) INFORMATION FOR SEQ ID NO: 4002:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4002:	
45	CTATTACGAT TGCTGCGAAA GAAGGTATTA AAAATATACA AATAGGCATG GCTCACCGTG	60
	GACGTTTAAA CGTTTTAACG CATGTCTTAG AAAAACCGTA CGAAATGATG ATTTCAGAAT	120
50	TTATGCATAC AGATCCAATG AAATTCTTAC CTGAAGATGG TAGCTTGCAG TTAACTGCTG	180
50	GATGGACTGG TGATGTGAAA TATCACTTGG TGGGCATTAA AACTACTGAT TCATACGGTA	240
	CAATGCAGCG TATTGCACTG GCTAACAATC CAAGTCACTT GGAAATTGTT GCACCTGTTG	300

	TCCATCATAA AngCAATGnC CATTGTTGAT ACATGGCGAT	400
	(2) INFORMATION FOR SEQ ID NO: 4003:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LBNGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4003:	
15	AGAAATATAT GCATTTCGGA TATCATGGTA AAGAGAATGG ATTAAGCGGT AAATCACGTG	60
	ATGAAGTGCG AGCGAAATGA AACAAAATTT AGATGTCATG CGAGACGATA ATCAAAGGGA	120
	CGACAGGTGA TGGGGTTGAA AGTGTAACGN GCTACACTGG TCATGATGCT GCTAAACTAC	180
20	GTGATTATAA TGAAACACAT CATGCTTTGT CTGGATATGA AATGATTGAC GCAGCAAAGG	240
	TGCCATTGCA ACAAATGAAG TCAATGCTGC GATGGGTATT ATTTGTGCAC GCCAACAGCT	300
	GGTTCCTCGG GTACCATTCC CGGTGCACTT TTTAAATTAG GAAAAAACAC ATGATTTAAC	360
25	AGAAGAGCAA ATGATTTGAT TTCTTATTCA CTTCAGCATT	400
	(2) INFORMATION FOR SEQ ID NO: 4004:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4004:	
	TGAAATAGAA CCTGAAACCG TGTGCTTACA AGTAGTCAGA GCCCGTTAAT GGGTGATGGC	60
40	GTGCCTTTTG TAGAATGAAC CGGCGAGTTA CGATTTGATG CAAGGTTAAG CAGTAAATGT	120
	GGAGCCGTAG CGAAAGCGAG TCTGAATAGG GCGTTTAGTA TTTGGTCGTA GACCGAAACC	180
	AGGTGATCTA CCCTTGGTCA GGTTGAAGTT CAGGTAACAC TGAATGGAGG ACCGAACCGA	240
45	CTTACGTTGA AAAAGTGAGC GGATGAACTG AGGGTAGCGG AGAAATTCCA ATCGACCTGG	300
	AGGATANTGG TTCTCTCCGA ATAGTTTAGG GCTAGCCTCA AGTGTGATTA TTGAGGTAGA	360
	nactgtttga cgagggccc tctcgggtac cgaattcagg	400
50	(2) INFORMATION FOR SEQ ID NO: 4005:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4005:	
	ATACTAAGGC GTTATTAGAC GATTAGACAA TGGTGTGATT AAAGGTGCAG CACTTGATAC	6
10	GTATGAATTT GAACGCAAAC TTTTCCCAAG TGATCAAAGG GGCAAAACAC TGAACGATCC	12
	ATTGTTAGAA TCGTTGATTG ACAGGGAAGA TGTCATATTA ACACCACATA TTGCGTTTTA	180
15	TACTGAAGCT GCAGTTAAAA ATCTAATTGT CGATGCATTA GATGCAACAT TAGATGTATT	240
13	GGCAGACTGG AGATACTAGG TTACGAGTAA ATTAAAAATC GAACTGATGA GATAATTTGG	300
	ATTGTTGGGG ATTCTGCATC CAGTTCGATT TTTTTAATTT GGTGTTGGAT GACGTTGnAA	360
20	TGTTGCCTAA TTTAAACGAC ATCGTAAACC nTGGATCCTC CAATGGCGTC CTTnC	419
	(2) INFORMATION FOR SEQ ID NO: 4006:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 444 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4006:	
	CTAACAGAAG CTAGTATAGG AAATCGGTAC TCGTTAAGGC TGATCTGTGA TGGGGAGAAG	60
35	ACATTGTGTC TTCGAGTCGT TGATTTCACA CTGCCGAGAA AAGCCTCTAG ATAGAAAATA	120
	GGTGCCCGTA CCGCAAACCG ACACAGGTAG TCAAGATGAG AATTCTAAGG TGAGCGAGCG	180
	AACTCTCGTT AAGGAACTCG GCAAAATGAC CCCGTAACTT CGGGAGAAGG GGLGCTCTTT	240
40	AGGGTTAACG CCCAGAAGAG CCGCAGTGAA TAGGCCCAAG CGACTGTTTA TCAAAAACAC	300
	AGGTCTCTGC TAAACCCGTA AGTGATGTAT AGGGGCTGAC GCTGCCCGGT GCTGGAAAGT	360
15	TAANGAGAGT GGGTTACTTC TTGCGACTTA NCGAAATCGA GNCCCCAGTA AACGGCGGGC	420
45	CGTAACTATA AChGTCCTAA GGTA	444
	(2) INFORMATION FOR SEQ ID NO: 4007:	
5 0	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TTTGAACTCT ATCAAAGCAT CAGCAATCAA AACATACGTA TCTTTACAAC AGTAATCATG	60
5	CATTCTATGA TGCTTCTAAC TGAATTAAAG CATCGAACAA TCGGAAGCAT ATTTCTAAAT	120
5	TATTTATTCA TTATAGTCTT AAACATAACA TGACCTAATA TATTACTAAC CTATTAAAAT	180
	AAACCACGCA CATCTAAGTG ATATACGACA ATCACAGCAA TAATAATTGC TTTAGAAAGT	240
10	CGTGCCGAAC TGGAACTTAC AAGTCTAGTT CGAACACAC CTGATGTGAG TGGTTTTCTT	300
	TATTTTAAAC ATGAACAATC AGATAAGTTA CTAGCATTAG CAAATATTAT TAAATCAAGG	360
	GCTTCGnTTC ATAAATTTAA AACATGTTAA ATTAGACGTG	400
15	(2) INFORMATION FOR SEQ ID NO: 4008:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4008:	
	TATACTTGTT TTTACAAACC ACAAAAAGCT CTAAACATTA GTTTAAACCA ATGCTTAGAG	60
	CTTTCTAATT ATTTTATGCT TTAAAAGATA CTGTGTTATC TACGATGACC TTACCGTCTT	120
30	TAATAACTTT TTCTGCGTGA TTGATACCAA AATGATATGG AATATATTCA TGATTTGGTG	180
	CATCCCAAAT TACTAAATTA GCCTTATCAC CTGTGTTAAT TGTACCCGCG TTAATGTCTA	240
35	TTGCTTTAGA GCCATTGACC GTAACAGCAT TCCAAACTTC ATTAGGTGAT AGCTTTAATT	300
	TCAAGGCTGC AATCGCCATA ACAAGTTGTA AGTTGTTTGT GGACACTACT ACCAGGGTTA	360
	TAATCAGTTG GCTAATGCCA TCGGCACCGG TTAATGGTCC	400
40	(2) INFORMATION FOR SEQ ID NO: 4009:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4009:	
50	ACAAACATTG AAATTAGAGG TATATAAAAA ATGCTTCTGC AATAGATGCA ATAAACATGC	60
	AATACAATAT GGAGGCGAAG TAAATGAAAA GTATTACGTT TGAAGAACAT TATGTCATTG	120
5 5	AAGATATTCA AAAAGAAACG ATGAATGCGA TATCAGCAGA TCCTAAAGGT GTACCGATGA	180

	ATCATGATGA ACGTATCCAA TTTATGAATA ATCAAGACGT TCAAATTCAA GTCTTATCTT	300
	ATGGAAATGG TTCTGCTTCA AATTTGGTTG GTCAGAAAGC CATTGAATTA TGTCCAAAAG	360
5	GCAAATGATC CATTGGGCAA ACTATATTGC ACCATATCCC	400
	(2) INFORMATION FOR SEQ ID NO: 4010:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4010:	
	ACTAGAGAAG GTATGTTACG TGACAATGAA TTACTAAATG GTATTTATTC ATCGAGTTAC	60
20	ATCTATAGTT TATTAAAATC AGAATACGAC CAAAAATGAC AAATTAGACT TACAAAAGAG	120
	TGATGACATT TAAAATGGCA GCGCTCTTTT ATTTAATTTT TGAAAATAAA AGGTTGTTGA	180
	CAGTATTATT TTATAACAAT ATAATGATTT TGATAATTAT TATCAACTAG ATGATGTTTA	240
25	TGGGAGGATG CTTTAAAACA GCCGTTTTAA GTGTAATGTA TTATTTTAGC GTGTAGGGAT	300
	GCGAAAATAT ATTTATAGGA CACATCTTGG GGATAATnGA TTTCTATAAT GAGGTGTCAA	360
30	ATGGAAAAGT TACCACGCTA TTATTAGCCn CCACGTTATT	400
	(2) INFORMATION FOR SEQ ID NO: 4011:	
35	(4) SEQUENCE CHARACTERISTICS: (A) LENGTH: 494 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4011:	
	Thichartag Amaratett Acceptance Ctatteatac American Tigantegne	. 60
	CGCTTTCCTA GGGTGCCGTC TCAGCATCGG CTTCGACTGG CACTGCTCCC TCAGGAGTCT	120
45		
	CGCCATTAAT ACTACGTATT AACATGTAAT TITACTITGA AATACTITAA AAAAATAAGA	180
	CACTITGCCC AACTTACACT ACCAATAAAA ACTTCTGTTA GAATTCCTCA AAATGATATT	240
50	TCGCGACATG TTAATGAAAT TGTTGAAACG ATACCTGATA GCAAATTCGA TGAATTCAGA	300
	CATCATCGTG GCGCAACATC CTATCATCCA AAGATGATGT TAAAAATCAT CTTATATGCA	360
5 5	TATACTCAAT CTGTATTTTC TGGTCGTAGA ATAGAGAAAT TACTTCATGA CAGTATTCGA	420

	GAATCCNAAT ACTG	494
_	(2) INFORMATION FOR SEQ ID NO: 4012:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4012:	
15	TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TTTAGACATA	60
	AAAAAAGAGA CCTCACGGTC CAACTTGCCT GGCAACGTTC TACTCTAGCG GAAGTAATTG	120
	GCTACCATCG TCGCTAAAGA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT CTTTCCTCTC	180
20	CTTCGGCTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT TCTCGTTTCG	240
-	TCAGATTCAA ACGTTTTCAC TTCGCCAAGC CATTTTTCTT TGTGTTTACT TTTTATTTTG	300
25	ACGTTTTAGG CATAAAAAA AGAGACCTTG CGGTCCCAAT GCGGGCTCAT CGCATCCATT	360
	TTTTGGCCTG GGCAACGTTC TnATnCCAGC GGAAnTnAAT	400
	(2) INFORMATION FOR SEQ ID NO: 4013:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4013:	
	CGAACTGCCG AACCCGAAGA GCGGATTTAC AGTCCGCCGC GTTTACCACT TCGCTACCCC	60
40	TCCAGCTTAT TCATATAATT TAATAATCAA AATGGTGGAG AATGACGGGT TCGAACCGCC	120
	GACCCTCTGC TTGTAAGGCA GATGCTCTCC CAGCTGAGCT AATTCTCCAA AATAATGACT	180
45	CCTACGGGAC TCGAACCCGT GTTACCGCCG TGAAAGGGCG GTGTCTTAAC CGCTTGACCA	240
	AGGAGCCATG GCTCCACAGG TAGGACTCGA ACCTACGACC GATCGGTTAA CAGCCGATAG	300
	CTCTACCACT GAGCTACTGT GGATTAATAT TATGCCTGGC AACGTTCTTA CTCTnAGCGG	360
<i>60</i>	AACGTGAATT CGACTTACCA TCGACGNTAA GGAGCTTNAC	400
	(2) INFORMATION FOR SEQ ID NO: 4014:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4014:	
	ATTAGGACCT CAAGACGATA TTACTAAATT TGAATACTTA AAAAAATCTT CTCAAAATAC	60
10	AGGTACTTCA TTATTGGTAT TCAACTTAAA GATCATGATG ATTTAATACA ACTCAAACAA	120
	CGTGTGAAAT CATTTCGATC CTTCCAATAT TTATATTAAT GAAAATAAGA TGTTATATTC	180
	ATTGTTAATT TAACACATAG TAAGANAAAC AGTCATAAAT TGATTTCTAA TTGAAATCAT	240
15	CTTATGACTG CTTTTACATT ATACTTTACA TTTCTCGTTT CGTCAGATTC AAACGTTTTC	300
	ACTTCGCCAA GCCATCTTC TTTGTGTTTG CTTTTATTTT GACGTTTTAG ACATAAAAA	360
20	ngngacctgc ggtctcaatg cggcttcatc gcatccactt	400
20	(2) INFORMATION FOR SEQ ID NO: 4015:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4015:	
	GAATGAAAAG CTCTAAAAGT TGTATTTTAA AAATAGTTCT TTAAATTATA TACCCACCAC	60
	ATTTGGGGAG GAACCTAAAA AAAAGCACTT CCCAAAAATG GAAAGTGCAA GTAGTGAGCC	120
35	ATAGAGGATT CGAACCTCTG ACCCTCTGGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT	180
	AATGGCTCTG AATGGCTGGG CTAGCTGGAT TCGAACCAAC GAGTGACGGA GNAAAGGTCC	240
40	GTTGCCTTAC CGCTTGGCTA TAGCCCAATA TATAGATGGT GGAGGGGGC AGATTCGAAC	300
10	TGCCGAACCC GAGGAGGCGG ATTTACAGTC CGCCGCGTTT AGCCCACTTC GnTACCCCTG	360
	CCAGNTTATT CATATGA	377
45	(2) INFORMATION FOR SEQ ID NO: 4016:	
6 <i>0</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4016:

	ATGACGCACC TGACATCCTC TCGGTTCATA TTCAGGCATA TCCGGACCAC AACTTGGATA	120
	GTCAGTTTGT TGATTTTCCC AGGTAATCAC ACCATTTTTC ACAAATACTT TCCAAGAACA	180
5	TGAGCCTGTA CAGTTAACAC CATGTGTTGT TTCTTACTTC TTTATCGTGG CTCCAACGTT	240
	CTCTGTACAT TTTTTCCCAT TCTCTACTTT TACTTTCTAG GATCGACCAA TTCCCATTGA	300
10	AATTITICTG TIGGCITAAA GAAATCAATC CAAATTICCC ATATITATAT CCTCCTACGG	360
70	GTGAAAAATA CGGTGTGTAG ANGTCGTGGT TTTTNAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 4017:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4017:	
or.	CTTTGAGCGC CTCCGTTACC TTTTAGGAGG CGACCGTCCC AGTCAAACTG CCCGnCTGAC	60
25	ACTGNCTCCC ACCACGATAA GGGCGTGGGT TAGAAAGCCA ACACAGCTAG GGTAGTATCC	120
	CACCAGCGIC TCCACGTAAG CTAGCGCTCA CGTTTCAAAG GCTCCTACCT ATCCTGTACA	180
30	AGCTGTGCCG AATTTCAATA TCAGGCTACA GTAAAGCTCC ACGGGGTCTT TCCGTCCTGT	240
	CGCGGGTAAC CTGCATCTTC ACAGGTACTA TGATTTCACC GAGTCTCTCG TTGAGACAGT	300
	GCCCAAATCG TTACGTCTTT CGTTGCGGGT CGGAACTTAC CCGACAAGGA ATTTCGTTAC	360
35 .	CTTAGGACCT TATAGTTACG GCCGnCTTTA ATTGGGGTTT	400
	(2) INFORMATION FOR SEQ ID NO: 4018:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4018:	
	TGTCGATTTA AGAGGCATGC TACGAGGAAT GATTGGTCAT CCGAAAAAAG ATCGAGCGGC	60
50	ATATGAGGCA CGCCAAGCGA TTCCAAACAT TAATGAAAAC AGTCCGCCAA TATTAATTGT	120
	ACATGGAGGG AAAGACCAGC AAGTTGGTAT TCATCATGCG TATTATTTAG CGGACCAACT	180
	AGAGTTAAAA GGTGCCACGC ATGNAAACAT TTTATCAAAT GGCAGAAGGA CATGTGCCAA	240

	CGCATAGCTT AGTTATGGAA ACGTGGTGTG CGCATGGGGA ACTATTCAAG CTTTGGAGGA	360
	TGTGGTACTT ACATGCGTTG GAATTAGGGG TCCGGTTACT	400
5	(2) INFORMATION FOR SEQ ID NO: 4019:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4019:	
	GGAGGTTTGG CACCTCGATG TCGGCTCATC GCATCCTGGG GCTGTAGTCG GTCCCAAGGG	60
	TTGGGCTGTT CGCCCATTAA AGCGGTACCA AGCTGGGTTC AGAACGTCGT GAGACAGTTC	120
20	GGTCCCTATC CGTCGTGGGC GTAGGAAATT TGAGAGGAGC TGTCCTTAGT ACGAGAGGAC	180
	CGGGATGGAC ATACCTCTGG TGTACCAGTT GTCGTGCCAA CGGCATTAGC TGGGTAGCTA	240
	TGTGTGGACG GGATAAGTGC TTGAAACATC TTAAGCATGA AGCCCCCCTC CAAGATGGAG	300
25	ATTTCCCAAC TTCGGTTTnT AAGATCCCTC CAAAGnTGAT GGAGGTTTAA TAGGTTTCGA	360
	GGTGGGAAGC ANGGTGGACA GTTGGGAGCT GGACGANTAC	400
30	(2) INFORMATION FOR SEQ ID NO: 4020:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4020:	
40	GAAGATGTTC GTCATTCTTC AAATAAACCA GAGCTAGTTG CAATTGCTGA ACCAGCATCT	60
	AATAGACCGA AAAAGAGAAG TAGACGTGCG GCACCGGCAG ATCCTAATGC AACTCCAGCA	120
45	GATCCAGCGG CTGCAGCGGT AGGAAACGGT GGTGCACCAG TTGCAATTAC AGCGCCATAT ACGCCAACAA CTGATCCTAA TGCCAATAAT GCAGGACAAA ATGCACCTAA CCGAnTnTTG	180
		240
	TCATTTTGAT GACAATGGTA TTAGACCAAG TACCAACCGT TCTGTGCCAA CAGTTAAACG TTTGTTAATA ACTTGCCGGG CTTCACACTA ATCAATGGTG GGCAAAGTAN GGGTGTTTAG	300
50		360
	TCATGCAATG GGTAAGAACG AGCATGTTTG GATTTCAGGG (2) INFORMATION FOR SEQ ID NO: 4021:	400
	(2) INFORMATION FOR ODG ID NO: 4021:	

5	(A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4021:	
10	CTAAGTCATG AATGGGAAGT GGCTCGCGTT GAAGAAGGAC TGACTACTGC TGCCACACAG	60
	CTTGCTAAAC AATTATCAGA ATTAGATTTA GCGTCACATC CTTTTGTGAT GTCAGAGCAG	120
	TTTGCAAGTn TAAAAGATCG TCCATTTCAT CCATTAGCTA AAGAAAAAAG AGGATTAAGA	180
15	GAAGCGGATT ATCAAGTGTA TCAAGCTGAA TTAAATCAAT CATTTCCTTT AATGGTTGCA	240
•	GCAGTTAAAA AGACACATAT GATTCATGGC GATACTGCAA ATATCGATGA ATTAGAAAAT	300
20	TTGACAGTAC CTATAAAAGA ACAAGCGACA GACATGTTAA AATGATCCAA GGTTATCAnT	360
20	AGATGACTAT GTACCATTCC GGTACnTCCT GGCCAT	396
	(2) INFORMATION FOR SEQ ID NO: 4022:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4022:	
	GATTGGTCTG NAAGAAGAAT TAATGGAAAA GCTACGTGAA AAATTAGAAG CGGCATTTGA	60
35	TACGATTTAC GAATTGTCTC AAAACCGAAA AATAGATATG AGACTTGCAG CATATATCAT	120
	AGGTATTAAA CGTACAGCAG AAGCAGCTAG ATATCGTGGT TGGGCATAAT TAATTATCAT	180
40	ATGTGATTTA ACGAGCTTGG GACAGAAAAC AAAGCCCTAA GCTCGTTAAT TTTATTTTAG	240
	CAGTAGTTGA CTGTAAAACA ATGCCCGTGT AAACGCTCTT TTCAAAAATA GTCGGGGCCC	300
	CAACACAGAG GCTGGTGGGA AAGTCAGCCT ACAATAGnGT GCAAGTTGGC nGGGGCCCCA	360
45	ACACAGAGGC TGGCGG	376
	(2) INFORMATION FOR SEQ ID NO: 4023:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	CAAATGGTGG AGCCATAGGA GGATTCGAAC CTCTGACCCT CTGATTAAAA GTCAGATGCT	60
	CTACCAACTG AGCTAATGGC TCTTCCATGG NGCNGGCCAG AGGACTTGAA CCCCCAACCT	120
5	ACTGATTACA AGTCAGTTGC TCTACCAATT GAGCTAGGCC GGCAATATGT AAGAATAAAT	180
	GGTGGAGAGT GACGGGTTCG AACCGCCGAC CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG	240
10	CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC TACTCTAGCG GAANTAATTC	300
	GGACTACCAT CGACGCTAAA GGAGCTTAAC TTCTGTGTTC CGGCATGGGA ACAGGTGTGA	360
	CTCCTTGCTA TATCACCAGA C	381
15	(2) INFORMATION FOR SEQ ID NO: 4024:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4024:	
25	GCCCCTTATG ATTTGGGCTA CACACGTGCT ACAATGGACA ATACAAAGGG CAGCGAAACC	60
	GCGAGTCGAA GCAAATCCCA TAAAGTTGTT CTCAGTTCGG ATTGTAGTCT GCAACTCGAC	120
30	TACATGAAGC TGGAATCGCT AGTAATCGTA GATCAGCATG CTACGGTGGA ATACGTTCCC	180
30	GGGTCTTGTA CACACCGCCC GTCACACCAC GAGAGTTTGT AACACCCGAA GCCGGTGGGA	240
	GTAACCTTTT AAGGAGCTAG CCGTCGAAGG TGGGGACAAA TGGATTGGGG TGAAGTCGTG	300
35	AACAAGGTAG CCGTGATCGG AAGGTGCGGC TGGGATCACC TCCTTTGCTG AAGGATGATG	360
	ATTTCGGNAA CATCNTTCTT CCAGAAGATG CCGGTAATAA	400
	(2) INFORMATION FOR SEQ ID NO: 4025:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4025:	
50	CTTAGAAGTG AGAATGCCGG TGTGAGTAGC GAAAGACGGG TGAGAATCCC GTCCACCGAT	60
	TGCTAAGGTT TCCAGAGGAA GGCTCGTCCG CTCTGGGTTA GTCGGGTCCT AAGCTGAGGC	120
	CGACANGTAN GGCGATGGAT AACAGGTTGA TATTCCTGTA CCACCTATAA TCGTTTTAAT	180

	GCIGAGIATI AGGCAAATCC GGTACTCGTT AAGGCTGAGC TGTGATGGGG AGAAGACATT	300
	GTGTCTTCGA GTCGTTGATT TCACACTGCC GAGAAAAGCC TCTAGATAGA AA	352
5	(2) INFORMATION FOR SEQ ID NO: 4026:	
10 -	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4026:	
	TGGGGCTCTT CCCGTTTCGC TCGCCGCTAC TAAGGGAATC GAATTTTCTT TCTCTTCCTC	60
	CGGGTACTAA GATGTTTCAG TTCTCCGGGT GTGCCTTCTG ATATGCTATG TATTCACATA	120
20	TCGATAACAT GACATAACTC ATGCTGGGTT TCCCCATTCG GAAATCTCTG GATCAAAGCT	180
	TACTTACAGC TCCCCAAAGC ATATCGTCGT TAGTAACGTC CTTCATCGGC TTCTAGTGCC	240
	AAGGCATCAC CGTGCGCCCT TAATAACTTA ATCTATGTTT CCACCATTTT TATAAGTCAA	300
25	ANGTTAACAT GAAGTTAGGT TCTTTTATAA AAGGATTAAA NGGGTTATTA ATCTTGTGNG	360
	TGTTCTTTCG	370
	(2) INFORMATION FOR SEQ ID NO: 4027:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4027:	
40	TCATGTTTCG CTTGGTTTAA TGCTGTTAAT GCGTTATCGA CACGATGTTT TTCATCTGAA	60
	ATTTGTTGTG CAGTTGCATC GCCATTGTCA ATAACACGTT GAGCTGCAGT TATTTCAGTT	120
	TCTGCTTCCG CTTCTTCGCA TTATAGTTAT CAATACTTTG TTGCGTCATA CCAGCAGTTG	180
45	ATGGTACTTG GTTCACAGAA CTTTGTAAGT TATTTTTAGA CGTTACTAAT TGGCTATTAT	240
	CITCITTATT TIGAAGTAAT GCTITACITG GATCAATCIT AGITTGTGCG CACGAACTTT	300
	AGTTAGTGCG TGCAGAAACT TGTTGTGGTG TTGCACGCTC ATTNATGAAG CACTGTTGGT	360
50	GCCTCCGTTT TCGCATAnTG GATTGTTGTT GCGCATGAGG	400
	(2) INFORMATION FOR SEQ ID NO: 4028:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4028:	
10	CTCATCGCAT CCATTTTTG CCTGGCAACG TTCTACTCTA GCGGAACGTA AGTTGGCTAC	60
	CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG	120
	GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA	180
15	TTCAAACGTT TTCACTTCGC CAAGCCATTT TTCTTTGTGT TTACTTTTTA TTTTGACGTT	240
	TTAGACATAA AAAAAAGAGA CCTTGCGGTC TCAATGCGGC TCATCGCATC CATTTTTTGC	300
	CTGGGCAACG TTCTACTCTA GCGGGAACGN AAGTTGGGCT TACCATCGAC GCTAAGAACC	360
20	TTTCTTGGAC TTGGTGGACA AACGGNGTGG CTGCTTTTCC	400
	(2) INFORMATION FOR SEQ ID NO: 4029:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4029:	
	AGGACTTGAA CCCCCAACCT ACTGATTACA AGTCAGTTGC TCTACCAATT GAGCTAGGCC	60
35	GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC CCTCTGCTTG	120
	TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC	180
40	TACTCTAGCG GAANTAATTC GGACTACCAT CGACGCTAAG GAGCTTAACT TCTGTGTTCG	240
••	GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG TAATTTGATA	300
	CATTCAAAAC TAGATAGTNA AGTGAAAAGT GATTTTGGNT TCGCAAAACC ATTTGATTTT	360
45	GATTGAAGTC CTTCGATCGA TTGAGTGATT CGTGCAGCTn	400
	(2) INFORMATION FOR SEQ ID NO: 4030:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GATGATAAAT CATGTTTTTC ATACCAAGTC GCTGCCGGCA AAACAATGTC AGAATATAAC	60
	GGTGTTGCCG TCATTCTGAA GTCTAAAGAG ACCACTAAAT CTAACTTACC TGTTGTTTCT	120
5	TCACGCCACG TAATTTCTTC TGGCTTTTCA TCTTCATTTG GTGTAGCTAA TAACCCTGAT	180
	TTTGTGCCAA GTAAATGCTT CATAAAGTAT TCTTGACCTT TTGCAGAACT TGAAATTAAG	240
10	TTTGAACGCC ATATAAATAA TGATTTTGGA TGATTCTTTT CAAATCAGGA TCTTCTATTG	300
,,	CAAATTGTGG TTTGTnTTGG ATTTCACnTC ATCAATTGCA CGTTGCAAAA TCGCTTCATG	360
	TGAATCTATA CCCTGCATCT TGTAGCnTCC	390
15	(2) INFORMATION FOR SEQ ID NO: 4031:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4031:	
	TGGTTCGAAT CCAGCTAGCC CAGTTATTGG CGGCATAGCA AGTGGTAAGG CAGAGGTCTG	60
	CAAAACCTTT ATCACCGGTT CAAATCCGGT TGCCGCCTCC AGGTTTATGC GGGAGTAGTT	120
30	CAACTITAG AACACGITCC TICCCGGAAn GAGGIATAGG IGCAAATCCI ATCITCCGCI	. 180
	CCATAATTTA ATAATAATGC GGGAGTATTT CAACTCTTAG AATACATTCC TTCCTGGAAT	240
	GAGGTATAGG TGTAAATCCT ATCTTCCGCT CCATAATTTA ATATTTGCGG GGAGTAGTTC	300
35	CAACTTTTAG AACACGTTCC TTCCCGGGAA GGAGGTATAN GTGTATCCTA TCTTCCGCNC	. 360
	CATAATGCCT TCCAAAGGGG AATTTTTTGG TTTNACCATT	400
40	(2) INFORMATION FOR SEQ ID NO: 4032: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4032:	
50	GTATCGATGA GTTTCTTCGG TGCGTCTTCG ACAGCCATTT TGACTTCGAC AAAATGCATC	60
	ACATCGGGAT GACCATTAAT TGCATTAAAC GTGTCTTGTA AATCTTTTGA TGATTCAACG	120
	TCATGAATTT CAACATTTTT ACCACCAAAT ACAGCTGGTA AAGCTTTATA ATCCCACATG	180
55		

	TTATTAATCA CCAATAATAC CGGGTTAATA TGCTGTCTAA TCATAGTTGG AAATAGCTTG	300
	AACAGTTAGT TGGCCATGAG CCATCACCCA TTTAATAATA AGTTACGACG GATCTTTGGT	360
6	CTGCCAATTG GGGGAnCnCA ATGTTGCAGG GNAATGGTAT	400
	(2) INFORMATION FOR SEQ ID NO: 4033:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4033:	,
	CACGACGTTC TGAACCCAGC TCGCGTACCG CTTTAATGGG CGAACAGCCC AACCCTTgGG	60
20	ACCGACTACA GCCCCCAGGÀ TGCGATGAGC CGACATCGAG GTGCCAAACL CCCCGTCGAT	120
	GTGAACTCTT GGGGGAGATA AGCCTGTTAT CCCCGGGGTA GCTTTTATCC GTTGAGCGAT	180
	GGCCCTTCCA TGCGGAACCA CCGGATCACT AAGTCCGTCT TTCGACCCTG CTCGACTTGT	240
25	AGGTCTCGCA GTCAAGCTCC CTTATGCCTT TACACTCTAT GAATGATTCC AACCATTCTG	300
	AGGGAACTIT GAAGCGCTCC GTACCTTTTA AGANGGCGAC CGGCCCAGTC AAACTGGCCG	360
30	CTGACACTGT CTTCCAACAC GATAAGTGGT GCGGGTTAGA	400
	(2) INFORMATION FOR SEQ ID NO: 4034:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(with appropriate programmers), and the No. 4034.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4034:	
	AATTCCATGT GTACGGTTGA AATGCGCAGA GATATGGAGG AACACCAGTG nCGAAGCGAC	60
45	TTTCTGGTCT GTAACTGACG CTGATGTGCG AAACGTGGGG ATCAAACAGG ATTAGATACC	120
	CTGGTAGTCC ACGCCGTAAA CGATGAGTGC TAAGTGTTAG GGGGTTTCCG CCCCTTAGTG	180
	CTGCAGCTAA CGCATTAAGC ACTCCGCCTG GGGAGTACGA CCGCAAGTTG GAAACTCAAA	240
6 0	GGAATTGACG GGGACCCGCA CAAGCGTGGN AGCATGTGGT TTANTTCGAA CAACGCAGAG	300
•	AACCITACCA AATCITGACA TCCTTTGACA ACTCTAGAGA TAAAGCCTCC CCTTCGGGGA	360
	AND AND THE PROPERTY OF THE PR	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4035:	
10	TTCGCTTTGC CCGTCTGTCA CATTACTGTA AAATTCTATA AATAGAATTT TTGATGACGG	60
	GTCCCTTCCT AGGGTGCCGT CTCAGCCACC CCAACCGGCA CATTGTTGTA AGCTGACTAT	120
15	ATGTCACTTC TGTGTTGGGG CCCCTGTCTT CGACTGGCAC TGCTCCCTCA GGAGTCTCGC	180
	CATTAATACT ACGTATTAAC ATGTAATTTT ACTTTGAAAT ACATTAAAGC CCAAATTAAT	240
	CAAAAGCTTT CTGAACCAGA AACGAAAAAA ATCTATAGTC ATAGAAAAAT TTATGTAGAG	300
20	CCTGTTTTTG GATTTATGAA GGCTATTTGG GGTTCACTCG AATGTCAGTT CGAGGAATAA	360
	ThAAGThAAC GAGAGCCAGG TTTGTAATTA TGGCACThAT	400
25	(2) INFORMATION FOR SEQ ID NO: 4036:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4036:	
35	TAAATGTTGA AAAAGCACGA TTAGATAGAA TTTTGAATAA CAATGAAATT CGTCAAATGA	60
	TCACAGCATT TGGTACAGGA ATCGGTGGCG ACTTTGATCT AGCGAAAGCA AGATATCACA	120
	AAATCGTCAT TATGACTGAT GCCGATGTGG ATGGAGCGCA TATTAGAACA TTGTTATTAA	180
40	CATTCTTCTA TCGATTTATG AGACCGTTAA TTGAAGCAGG CTATGTGTAT ATTGCACAGC	240
	CACCGTTGTA TAAACTGACA CAAGGTAAAC AAAAGTATTA TGTATACAAT GATAGGGGAC	300
45	TTGATAAACT TAAATCTGAA TTGAATCCAA CACCAAAATG GCTATTGCAC GTACAAAGGC	360
	TTGGAGAATG AATGCAGTCC ATTTGGGAAC ACATGACCTG	400
	(2) INFORMATION FOR SEQ ID NO: 4037:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4037:	
	TCGTCGCTAA AGACCTTTCT TGACTTGTGA CAATCGCTTG CTTCTTTCCT CTCCTTCGGC	60
5	TCTCGCTTAC TCATTTAGCT CTACTAAACT CGTTGCGCTC TTTTCTCGTT TCGTCAGATT	120
	CAAACGTTTT CACTTCGCCA AGCCATTTTT CTTTGTGTTT ACTTTTTATT TTGACGTTTT	180
	AGACATAAAA AAAAGAGACC TTGCGGTCTC AATGCGGCTC ATCGCATCCA TTTTTTGCCT	240
10	GGCAACGTTC TACTCTAGCG GAANTAAATT GGGCTACCAT CGACGCTAAG AACCTTTCTT	300
	GACTIGIGAC AATCGCTIGC TICTITCCTC TICTITCGGCT CTCGCTTACM CATTIAGCTC	360
15	TACHAAACTC GTTGCGCTCT T	381
	(2) INFORMATION FOR SEQ ID NO: 4038:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4038:	
	CTGTTTGTCA TACTTCATAA ATCCTTTAAA TTCACCCATC GTATCTCCCC CTTTCCTTAA	60
30	TACACAACGG CTGGTTTATG TTTAGCATCG ATTGTTTTAC TGTCATCGTA AAATGCAGCT	120
	AACATCGCTT CATCTTCATT GTCATGTAAT GATTTGTGCA AATGAATTTT TTGCATCATT	180
	AATTGATAAT CTTTAGGAAT AACTTTAACG ACGACATCTT CAATGCGATC AAAATGTTTT	240
35	AACACATGAA TCGCTCTCGT ACTATTCGTG TGTGACACAT GTnCTTCCAG CATTTGCTTA	300
	ATGAATGCTT TTnCTTCTTG GTGTTTAATC TTTGTAAACG AAAGCGTATC TAGTGATANG	360
	(2) INFORMATION FOR SEQ ID NO: 4039:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4039:	
50	AGTGCGAACC CATAACCTCT TGATCCGTAG TCAAACGCTC TATCCAATTG AGCTACGGGC	60
	GCATATGTTT TTATTGAAAA TGGTGCCGAG GACCGGAATC GAACCGGTAG TGANTGCACT	120
	CACCGCAGAT TTTAAGTCCT GTGCGTCTGC CAGTTCCGCC ACCCCGGCAC TATAAAAATG	180

	GAACTACTTC TGCATATGCG GGTGAAGGGA GTCGAACCCC CACGCCGTAA GCTNAGGATC	300
	CTAAGTCTAG TGCGTCTGCC AATTCCGCCA CACCCGCAAA TGGTGAGCCA TAGAGGATTC	360
5	GAACCTCTGG ACCCTCTGGA TTAAAAAGTC AGATGCTCTA	400
	(2) INFORMATION FOR SEQ ID NO: 4040:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4040:	
	CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	60
20	TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT	120
	TCGCCAAGCC ATTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAG	180
	AGACCTCACG GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA	240
25	CCATCGTCGC TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCCTTC	300
	GGCTCTCGCn TACTCATTTA GCTCnACTAA ACTCGTTGCG CTCTTGTTCT CGTTTCGGGC	360
30	AGATTCAAAC GnTTGTCA	378
	(2) INFORMATION FOR SEQ ID NO: 4041:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4041:	
	GTACCTTARC AATATCTCGA AATGGACGAA CTAAATTATG AACCGCATGA AAGGATACTT	60
	GCGAATCATT TGAGCATGCT TGAATCATAA TATCACCATC GCTGTAATCG TCTATTAACT	120
45	GATCATTCGG AAAATGCGGT AAATCTTTAA AGGCATCGGG AATTTTACTA GATAACCCAA	
		180
	TTTTCTTCAT CAAAGACTTA CTAATCCCAA AGGTAATCGT TAACTTGCTT GCACCTAATC	240
50	CTATCGATTC ACCGGTATCT ACTGGTGGGC ATTAAAGGAT TGTTACTCGG GCTTGGCCAA	300
	CTGTATCACC ATCCATCATA CGATTCAGCC ATAACGGTCC ACTTTTTTAA ACATTGGCTT	360
66	TATTGGCACC CNAACCTTTG GACTTCNAAT CTAACGGCCA	400
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4042:	
10	GACTTGCAAA CGTTGTGATG ACGGTCAAGA AAACTGGTAA CACACCAGAC GGACGTAAAG	60
	CTGGCGAACC ATTTGCTCCA GGTGCAAACC CAATGCATGG CCGTGACCAA AAAGGTGCAT	120
15	TATCTTCATT AAGTTCTGTA GCTAAGATCC CTTACGATTG CTGTAAAGAT GGTATTTCAA	180
	ATACATTCAG TATCGTACCA AAATCATTAG GTAAAGAACC AGAAGATCAA AACCGTAACT	240
	TAACTAGTAT GTTAGATGGT TACGCAATGC AATGTGGTCA CCACTTAAAT ATTAACGTAT	300
20	TTAACCGTGA AACATTAATA GATGCAATGG AACATCCAGA AGGAATATCC ACAGTTAACA	360
	ATCCGTGTAT CTGGTTACGC TGTTAACTTC ATTAAATTAA	400
	(2) INFORMATION FOR SEQ ID NO: 4043:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4043:	
35	CTATTTTATC TAAAGTTAAA CCTGACCCAC CTAGAATTGA CGCAAACTCT GTGACATATA	60
	AAGCAGGTCT TACAAACCAA GAMATTAAAG TTAATAACGT ATTAAATAAC TCGTCAGTAA	120
	AATTATTTAA AGCAGATAAT ACACCATTAA ATGTCACAAA TATTACTCAT GGTAGCGGTT	180
40	TTAGTTCGGT TGTGACAGTA AGTGACGCGT TACCAAATGG CGGAATTAAA GCAAAATCTT	240
	CAATTTCAAT GAACAATGTG ACGTATACGA CGCAAGACGA ACATGGTCAA GTTGTTACAG	300
45	TAACAAGAAA TGAATCTGTT GATTCAAATG ACAGTGCACA GTGAACAGTG GACACCACAA	360
	TTGACAAGCC AACTACTGAA GGCGCnGTGn TTATTAAAAG	400
	(2) INFORMATION FOR SEQ ID NO: 4044:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 375 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

.

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4044:	
	AAAATGGCTT GATTTGAAAA ACGACCAGCA TGCGCTACTG GNATAATAGC GAGGCTACCA	60
5	TGTTGTTTCA TCGTAGnCGC ATGTTAGTTA ATCCAGGGAT ACAAGCATCA TGATCAATAT	120
	TAAAGCCATA TTCAAACAAT TGACCATAAG GTTCAATGTA AGCAGCGCCG GTGCACTTGC	180
10	ATTCCAGCTG AATTAGAGCG ACGTGCAGCA TAAGCCAAGT CTTCTTTTGT AATATAGCCT	240
	TCTTTGTTG ATGTGTTTAC GGTCCATTGG GTGGATAATA CAAAGCGATT CGAAATTTTG	300
	ATGCCATTAG GTAAGTGGAT TGATTGTAAA AGTGGTTTGT ATCGGTACAT ACTATGATTC	360
15	Chtttccatt gcaat	375
	(2) INFORMATION FOR SBQ ID NO: 4045:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4045:	
	GTTCCAATGA AGATAGCTAG AAATGATATC CAAAACACAT GATGCATCAC TGGTGATGCT	60
30	CGACTAATTG TATTCCATGA TGCATTAATA ATAATGACCA ATACACATAA AATAAGCAGC	120
	CATTTATCGT TTATTTTAAA AATATAATGC AGCAAAAATC CCAAAATGAT TAATTGCACA	180
	ACTGCTCGTA ATGTCGCAAC AATTAAATCT TTAATAATAT GTAAACCTTC TTTATATGAA	240
35	ATGATAATCG GAATGACTAA AAGCAATGCC GTCAATCCAA GTGCCGTATT ACTCATGTnG	300
	ATTCAACTCC TCTGTATTAG AAATTTGACC ATCAACAATT GTTATACGCT TTTTGnAAGT	360
40	GGTCGCATAC TTTGGGGCAT CGCTGTGGGG TAGGGGGGnCn	400
10	(2) INFORMATION FOR SEQ ID NO: 4046:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 375 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4046:	
	CGAGTCTGAG TCGCTGTCTG AATCTGAATC GCTGTCTGAG TCCGAATCGC TATCTGAATC	60
	TGAGTCGCTG TCTGAGTCTG AATCGCTATC TGAATCTGAG TCGCTATCTG AGTCTGAGTC	120
5 5		

	TGAGTCTGAG TCGCTATCTG AGTCTGAGTC GCTGTCTGAA TCTGGAGTCG CTGTCTGAAT	240
_	CTGGAATCGC TGTCTGGAGT CTGAATCGCT ATCTGAGTCT GGAATCGCTA TCTGAGTCTG	300
5	AATCACTGGT CTGGAGTCCG AGTCACTGTC TGAATCTGAC TGCACTNACN GGATTCTGAG	360
	TCGCTAACNG GAATC	375
10	(2) INFORMATION FOR SEQ ID NO: 4047:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4047:	
20	ATGGGTAAAA AGGCATTAGA GTCAATCATT GATAACGCTG ATGAAACAAC TCAAGAGCGT	60
	TTACGTTCAG GATATGAAGA TGCTGTAGAT TATAACCGTT ATGTCGGTAA TATTTATACT	120
25	GGATCATTAT ATTTAAGCCT AATATCATTA CTTGAAAATC GAGATTTACA AGCTGGTGAA	180
20	ACAATCGGTT TATTCAGTTA TGGCTCAGGT TCAGTTGGTG AATTTTATAG TGCGACATTA	240
	GTTGAAGGCT ACAAAGATCA TTTAGATCAA GCTGCACATA AAGCATTATT AAATAACCGT	300
30	ACTGANGTAT CTGTTGGATG GCATATGGAA ACATTCTTCC AAACGTTTTG GATGACGGTG	360
	GAATTTGACG GNGGACCAAG ATGCNTGTTC CAGGAGGTCC	400
	(2) INFORMATION FOR SEQ ID NO: 4048:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4048:	
45	CAAACCATCT GACATAATAT ACACTTGGAT GTTAGATAAG GGTTTGCCAA TTGGAATCGT	60
	CTCAGGTATC AATCACCACA ATGATGTGAC CAATACGATG TGATGACTGT TGACTCAGAT	120
	GGTCCATAGG CATTGAAATA CGTGCCACAA TGCTTCTCAA TATATTTAAC AAAGGATGCC	180
50	GTACTAGTTG CCCCGCCTGT AATCAACTTT TCAATATAAA AGTCTTCCAT AACACTACAC	240
	ATCTGTAACG GAATCGACGC AACCGTCACA CGATGCTTAT TAATGAGTTG TTGTAACTGT	300
55	TCTGGATTAA CACGnTCCTC TCTATCTGGA nTCACAAGCG TATGACCATT AACAAACAAC	360

(2) INFORMATION FOR SEQ ID NO: 4049:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4049:	
*,	TCTGCATGTT CTCGAGATCC ACCAAATGTT AAATGGGTAT GTGCATCTAC TAATGCTGGG	60
15	GACACTACCT TCCCACTAGC ATCAATCGTC TCAGTCGCAT CGTAGTCATC TGTATGTGTT	120
	CCAGCATATA CAATTTTGGC CATCTTTAAT GACAACTGTA CCATTTTCA CAACATTTGA	180
	ATTCATCTAA TTCCTTACCC TTCAAAGGTT TATCTGTTGA TCTCGGTAAA ATTAATTGCT	240
20	GCTATATGAT TANTATTAAA TCATTCATTA CTATCACCTG CTTATCAATC ATGGAATAGA	300
	ATACCTTTTC nTTAGCGTTT GAATAGCGAG TCATAGCCAG CATCAACATG TCGGGCAACA	360
05	CCCATACCGG GGTCATCGTC CAATACACGT TCCAAnCTnC	400
25	(2) INFORMATION FOR SEQ ID NO: 4050:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4050:	
	ATCACCCATG TTCTGACTCC CAAGTTAAAT TAATTGGCAT TCGGAGTTTG TCTGAATTCG	60
	GTAACCCGAG AGGGGCCCCT CGTCCAAACA GTGCTCTACC TCCAATAATC ATCACTTGAG	120
40	GCTAGCCCTA AAGCTATTTC GGAGAGAACC AGCTATTTCC AGGTTCGATT GGAATTTCTC	180
	CGCTACCCTC AGTTCATCCG CTCACTTTTC AACGTAAGTC GGTTCGGTCC TCCATTCAGT	240
45	GTTACCTGAA CTTCAACCTG ACCAAGGGTA GATCACCTGG TTTCGGGTCT ACGACAAATA	300
	CTAAACGCCT ATTCAGCTCG nTTCGTACGG CTCCACATTT ACTGCTAAnC TTGCATCAAT	360
	CGTACTCGCG GTCAATCTAC AAAAGnACGC ATCACCAnTA	400
50	(2) INFORMATION FOR SEQ ID NO: 4051:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4051:	٠
5	AGTGAAAATG ACTTTATCGG GCTGTTCAGC GATATGGATT TGAGTTCAAC GCGACTAGGT	60
	AACAATGTCA AAGAACGTAC TGCTTTAATC TCTAAAGTCA TGGTTAATCT TGACGACTTA	120
10	CCATTCGTTC ACAGTGACAT GGAAATTGAT ATGTTAGGTG ATGCATATGA ATTCCTAATC	180
	GGGCGCTTTG CGGCGACAGC GGGTAAAAAA GCAGGCGAGT TCTATACACC ACAACAAGTA	240
	TCTAAGATAC TGGCGAAGTT GTCACAGACG GTAAAGATNA ATTACGTCAC GTGTAACGAC	300
15	CCAACATGTG GGnTCCGGTT CATTGTGGTA ACGTGTTGGT AAAGAACGCA AGTGTATCGT	360
	TAATTCGGAC NAAGAACGTA ACAATACTAC NTACGACTTA	400
	(2) INFORMATION FOR SEQ ID NO: 4052:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4052:	
30	TCCTACAACC CCAACAAGCA AGCTTGTGGT GTTGGGCTCT TCCCGTTTCG CTCGCCGCTA	60
	CTAAGGGAAT CGAATTTTCT TTCTCTTCCT CCGGGTACTA AGATGTTTCA GTTCTCCGGG	120
	TGTGCCTTCT GATATGCTAT GTATTCACAT ATCGATAACA TGACATAACT CATGCTGGGT	180
35	TTCCCCATTC GGAAATCTCT GGATCAAAGC TTACTTACAG CTCCCCAAAG CATATCGTCG	240
	TTAGTAACGT CCTTCATCGG CTTCTAGTGC CAAGGCATCC ACCGTGCGGC CCTTAATAAC	300
40	TTAATCHATG TTTTCCACCA TTTTTTATAA GTHCAAAGGC TTCACATACG GCTTCGGTTT	360
40	TTCATTAATT TTAAATGGCn CAATTTAACA	390
	(2) INFORMATION FOR SEQ ID NO: 4053:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4053:	
	AACATACCGA TGTATATAAT CTATACACAA AGGATAATTA CTTATGCAAA GGCGGAGGAA	60

	GTCGATTGCG AATGATTTAA GAGGGAACAT GGATGCGAGT GAATTCCGTA ATTACATTTT	180
	AGGCTTGATT TTCTATCGCT TCTTATCTGA AAAAGCCGAA CAAGAATATG CAGATGCCTT	240
5	GTCAGGTGAA GACATCACGT ATCAAGAAGC ATGGGCAGAT GAAGAATATC GTGAAGACTT	300
	AAAAGCAGAA TTAATTGATC AAAGTCGGTT ACTTCATTGA GCCACAAGAT TTATTCAGTG	360
10	CGATGATCGT GAAATTGANA CGCANGATTT CCGATATAGA	400
	(2) INFORMATION FOR SEQ ID NO: 4054:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SBQ ID NO: 4054:	
	GTAAGACCAT CGTACTTGAG TCTTCAAGTG TTCTTGATAA AACGGAACGA GAGACTTGGT	60
25	ATTTTTCGAA CAAATCTTTC ATTAACACAC CGACCATAAT AATTACAATC GAAGCAACAC	120
25	CTGCAGCGAA TACAAGCGCA ATACAACAAA TAACAGTAAT ACATATTAAA CTTCCTACAG	180
	AATGGATGCC TTTAGAAATA GTAGTTAATA AGACTTCTAA. ACATCCTGCT TTTTCTACAA	240
30	TACCTGCAAA TGCATATCCG CAAAATATCG TTACTAATAT TTGGGnCATA CTCATCATAC	300
	CACCCTGTTC TAACAAGCTT TCACACTGGA TGAATATGAG nTGATGTATC ATTGATCGTT	360
•	AAACCCTAAT GTGCTTTGAA CCATCGTCAT TTGAATGTGA	400
35	(2) INFORMATION FOR SEQ ID NO: 4055:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4055:	
	CGTCTACAAG TTCAAAATTC AAGTCTTCCA TAATTGGTTT AACAATCACT TCTACTTGTT	60
	CTGTAATTTT ACTCATACAG GCCTCCCTTT TTGGCAAATA GAAAAGAGCG GGAATCTCCC	120
50	ACTCTTCTGC CTGAGTTCAC TAATTTTTAA GCAACTTAAT TATAGCATAA GTTTATGCTT	180
	GAAACAAATG ACTICACTAT TAATCAGAGA TICTIGTAAA AGIITGIICC TITATIICAC	240
	CATTACATTT GAATAGACTC GTAAGACATT GAAAAGAAAT ACGGGCATAA TTTTGTGTCC	300
55		

400

TCATTTTACA TATCAAATAT CGGAAGTTGA GCTTTATCTG

	(2) INFORMATION FOR SEQ ID NO: 4056:	•
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 481 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4056:	
15	ATTTTGGTTT ACTTCATGTT GAGTTTTAGA CATTTTAACC ATCTCCAATA TAAAAATAAA	60
	TTAAATTAAA TTCTCAGGGA CTTGCATGAC GCCACCTGTA TTTGCGCTAG TTACTAGGGC	120
	AGTATAACGA GCTAGATAAC CTGTTTTTAC TTTCGCTTTA AATGGTGTTA AAGATTCTCG	;180
20	GCGACGCGCT AGAACATCTT CAGGCTGGTT TACGTTTAAT GTACGATTTG TTAAATCAAT	240
	AGTAATCTCA TCACCATCTT CAATTAAGGC AATTGGTCCA CCAGATGCAG CTTCAGGGGA	300
05	AATATGACCA ACTGCAATAC CTCTTGTGGC ACCGGLAAAA ACGCCCATCA GTKAATTAAT	360
25	GCAACATCTT TACCTAAGCC GCGACCAACA ATAGAGGAAG TAGGTGCTAA CATTTTCAGG	420
	nCATACCTGG GTCCACCTTT TAGGTGCCTT TCAnTATCTn ATGGACAACG ACGTGGGCCT	480
30	$\mathbf{G}^{(N)}$. A substituting the state of	481
*	(2) INFORMATION FOR SEQ ID NO: 4057:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4057:	
	TTTTTGCCTG GCAACGTTCT ACTCTAGCGG AACGTAAGTT GGCTACCATC GTCGCTAAAG	60
45	ACCTTTCTTG ACTTGTGACA ATCGCTTGCT TCTTTCCTCT CCTTCGGCTC TCGCTTACTC	120
	ATTTAGCTCT ACTAAACTCG TTGCGCTCTT TTCTCGTTTC GTCAGATTCA AACGTTTTCA	180
	CTTCGCCAAG CCATTTTCT TTGTGTTTAC TTTTTATTTT GGACGTTTTA GACATAAAAA	240
50	AAAGAGACCT TGCGGTCTCA ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTTCT	300
	ACTCTAGCGG AAGTAAATTG GGCTACCANC GACGCTAAGA ACCTTTCTTG GACTGTGACA	360
	ATCGGCTGCn TCTGTnCCT	379
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4058:	
	CTGCATCACT GCCATAAAAA CTACCGTCAG CAGCGATAGN CGGCCAATCA TACCAGGAAC	60
	AAGACCGGGC TTGTCAGCGA TACTAACAGC GATATATCCA GCTAGTATTG GAACCATAAA	120
15	TTTAAAGGCT AAACTACCAA TGTTTTCAAT GGATTTCCAA AATGAATCAT CTGGGATGAC	180
	TAATCCTTTT GATGTCGTTT CACCGCCTAG AGTCAGCGCG ATGGCGATAA GGAGTCCACC	240
	AACTACGATA AAAGGAACCA TAAACGATAC ACCGTTCATT AAATGTTGAT ACACCATTTG	300
20	AATACCATTT TAGACTHACC GCGATCTTTC GAATGATAAT TTGTTTCAGA TGGTTAAATA	360
	GGCGCATTTG ATTTAATGAT ACGTGGATTT GGACCCTCGG	400
25	(2) INFORMATION FOR SEQ ID NO: 4059:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4059:	
<i>3</i> 5	TTAAAAAACT GCCTGGCAAC GTTCTACTCT AGCGGAACTA AGTnGAnCTA CCATCGACGC	60
	TAAGGAGCTT AACTTCTGTG TTCGGCATGG GAACAGGTGT GACCTCCTTG CTATAGTCAC	120
	CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG TAAGTAAAAG TGATTTTGCT	180
40	TCGCAAAACA TTTATTTTGG ATTAAGTCTT CGATCGATTA GTATTCGTCA GCTCCACATG	240
	TCACCATGCT TCCACCTCGG AACCTATTAA CCTCATCATC TTTGGAGGGA TCTTATAAAC	300
45	CGAAATTGGG GAAATCTCAT CTTGAGGGGG GCTTnCATGC TTAGATGCTT TCCAGCACTT	360
	ATCCCGT	367
	(2) INFORMATION FOR SEQ ID NO: 4060:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 4060:	
	TTCCGnACTC ACATAGCGAC TCAGGATTCA GACAGCGCAT TCAGATTCAG ACACCGCATT	60
5	CAGATTCAGC ATAGCGATTC AGCATTCCGC ACAGTGACTC AGATTCCGA CAGTGACTCG	120
	GATTCAGATA GCGATTCAGA TTCCGACAGT GACTCAGATT CCGACAGTGA CTCAGACTCA	180
10	GACAGTGATT CGGATTCAGC GAGTGATTCG GATTCAGATA GTGATTCCGA CTCCGACAGT	240
	GACTCGGATT CAGATAGCGA CTCAGACTCG GATAGCGACT CGGATTCAGA TAGCGATTCG	300
	GACTCAGATA GCGATTCAGA ATCAGACAGC GATTCAGATT CAGACAGCGA CTCAGACAGT	360
15	GACTCAGATT CAGA	374
	(2) INFORMATION FOR SEQ ID NO: 4061:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 432 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4061:	
	AAAATCATAA TATTTGGCAA TTTTTTCAAC TTGACTCTGG TCCTTCTGCA TAACTGCCGT	60
30	ARATAATTCA CCTTCATCAC ACGCTGTACC TACCAATAAT CCCTCACGAT ATTCATCTAA	120
	CAATGAACGT GGAATTCGAG GTGTACGGTA GAAATACTTC ACCAATGATG CACTTACAAT	180
	TTTAAATAGA TTTTTAAGAC CTTGTTGGTT TTGTACAATT AATGTGACAT GACTAGGTCT	240
35	TGCACGTTTA TATGCATCTT CATTACTGAG TTTTTKGTLG ATTTCGTTAT GATTTAATAC	300
	GCCTAAWTCY TTCATTTGTT GAACCATTTT TATGAAAATG TAAGCTGTTG CTTCTGTATC	360
40	ATAAATGGCA CGGTGATGTT GCGTTAATTC TACGCCATAT TTTTTAGCCA AGAAATTCAA	420
	ACCATGTTTA CC	432
	(2) INFORMATION FOR SEQ ID NO: 4062:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
60		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4062:	
	TATCTTCGTT CTCAATAGAA TGATTTAAAC CTTCGATTTC TTTATCTAAA TGACTACCAA	60

	TITITUTE AACTAGICA COMMINATO TITIGAATI TICGITCANI TICGATICGI	100
	GATTTTGAAT ACTITTCTTC CACACAAATG TATACCTATT GGCATTAGCT TCTACTTTTG	240
5	TACCATCAAT AAGATTTTGC TTTAAACATT GACTATGAAA CTGGGATAAA TAAAGANTCA	300
	ATTAACGCAT CAGTATTAGG GANTCACTCT AATACGATTA ATAGTTTTTA TAAGAAGGTG	360
	nTTGGATTTG GAGCTAACCA CATCCA	386
10	(2) INFORMATION FOR SEQ ID NO: 4063:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4063:	
	TAGGAGAGCG TTCTAAGGGC GTAGCATGAT CGTAAGGACA TGTGGAGCGC TTAGGAGAAT	60
25	GCCGGTGTGA GTAGCGAAAG ACGGGTGAGA ATCCCGTCCA CCGATTGACT AAGGTTTCCA	120
	GAGGAAGGCT CGTCCGCTCT GGGTTAGTCG GGTCCTAAGC TGAGGCCGAC ACGTAGGGCG	180
	ATGGATAACA GGTTGATATT CCTGTACCAC CTATGAATCG TTTTAATCGA TGGGGGGACG	240
<i>30</i>	CATAGGTATA GGCGAGGTGA CGATTGGGAT TGCACGTCTT AAGCAGTAAG GCTGAGTATT	300
	AGGCAAATCC GGTACTCGTT NAAGGCTTGA GCTGTGGATG GGGAGAAGAC ATNGAGTCTT	360
	CGAGTTCGTT GGnTTTCACA ATGGCC	386
35	(2) INFORMATION FOR SEQ ID NO: 4064:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4064:	
	TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT GGCAACGTTC	60
	TACTCTAGCG GAACGTAAGT TGGAGCTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT	120
50	CGGCATGGGA ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT	180
	ACATTCAAAA CTAGATAGTA AGTAAAAGTG ATTTTGCTTC GCAAACATTT ATTTTGATTA	240
•	AGTCTTCGAT CGAnTAGTAT TCGTCAGCTC CACATGTCAC CATGCTTCCA CCTCGAACCT	300
EE		

	AGGGGGGCT TCATGCCTTT AGAATG	386
	(2) INFORMATION FOR SEQ ID NO: 4065:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4065:	
15	AATTCTTTCG CTACTTGAAT GACAACACTT TGTTTTACGC CTGAAATGGC TTCTTGCCAA	60
	GCAGGTGTAT ATTTTGATTC TGCATCGTCG TATCCTTTTG ATTCTAATTT ATGATCAAAA	120
	CGACGCACGC CATATTGACT TGCCATTAAG TCAAAAATTG TAGCAATACG GACTTTGTCA	180
,20	CCATTTGCTA AAGTGACTTG TCGAGTTGGA ATTGGACGAT TGAATATCCC ATCTCCATCA	240
	CTATCAAAGT ATGGGAATTG AATTGTTTCT AATTCGTATC CACCTTCTGT CATTGATAAT	300
	GTAGGGTTAA TTTTAGAACC ATCTTCTGTT TCTAGTTTTA AGTTCCACTT CTTACCTTCT	360
25	TCCCAACGTG GACCCATGGT GCCATTANGN ACTACTAAAC	400
	(2) INFORMATION FOR SEQ ID NO: 4066:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4066:	
	ATTTTGAAAT TGAGAAAACA ACTTATTGAA AAACATAATC TTTACGGTAA CATGGGTTCA	60
40	GGAACAATCG TTATTAAAAT GAAAAACGGT GGGAAATATA CGTTTGAATT ACACAAAAAA	120
	CTGCAGAGCA TCGTATGGCA GACGTCATAG ATGGCACTAA TATTGATAAC ATTGAAGTGA	180
45	ATATAAAATA ATCATGACAT TCTCTAAATA GAAGCTGTCA TCGGAAAAAC AAGAAGTTAA	240
	GTGACAACGG TTTACATGTT GCTTAGCTTC TTTTATTATG CGTAATGATG TAAAAAAGACG	300
	NATATICATI TGTTTGTAAA AGTGGCATTC TATGTCTTAA AGTGACGNAA CTTCCAATGT	360
50	GCCCAGTGTT TGATTCACAT CAAATCCATT TTTATTTAAC	400
	(2) INFORMATION FOR SEQ ID NO: 4067:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4067:	
	CCTCATTCCA GGAAGGAATG TATTCTAAGA GTTGAAATAC TCCCGCATTA TTATTAAATT	60
10	ATGGAGCGGA AGATAGGATT TGCACCTATA CCTCGTTCCG GGAAGGAACG TGTTCTAAAA	120
	GTTGAACTAC TCCCGCATAA ACCTGGAGGC GGCAACCGGA TTTGAACCGG TGATAAAGGT	180
	TTIGCAGACC TCTGCCTTAC CACTTGGCTA TGCCGCCAAT AACTGGGCTA GCTGGATTCG	240
15		
	AACCAACGAG TGACGGAGTC AAAGTCCGTT GCCTTACCGC TTGGCTATAG CCCATTAATA	300
	ATAAGGGCGG CTGAAGGGGA TCGAACCCTC GAATGTCGGA ACCACAATCC GATGTGTTAA	360
20	CCACTTCACC ACAGCCGCCA TGGCAGGGGC AGTAGGAATC	400
	(2) INFORMATION FOR SEQ ID NO: 4068:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4068:	
	TATCTAATAG TTTTACTTTA AGTCCAGCAT TCACAAAAAG TGCTGCCAGT TGAGCGCCCA	60
	TTGTGCCTGC GCCAAGAACG GTTACTTTAT TAATTGTCAT AGTGATTCCT CCAATTTAGT	120
35 .	TGAGGATAAG ATAACCATTA AGATAATTGG AATAACGTTG CTATTTTATA AAATTAATTA	180
	AGTATCTTTG ACAGTCATCT TAGCCTCTTA TTTAAGGAAA AAGCTTTATG CTTAAAATAA	240
	GTCTTTTTTA GTGAAATTAA TGCATCTCAT ATAATTATTT GCTATTTATA CGAAAGCAGA	300
40	ATCTCCAGTC AAAGCGCGTC CANTACTAAG GCATTAATTT CATGTGTACC TCGTACGTGT	360
	AAATCGNTTC TGCATCAGNG AGGAAACGTG CAATATCATA	400
45	(2) INFORMATION FOR SEQ ID NO: 4069:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4069:	

	AAAAAGAAGA ATTGAAACGC CATATAAAGT AACGTTAAAT AATAACGAAA AAAGGGCACT	120
	ATTCAAACAA TTAGCGTATG TTGAAGGGTT TGAAAAATAT CTTCATAAAA ACTTCGTTGG	180
5	TGCAAAGCGT TTTTCAATTC nCGGGGTAGA CGCACTTGTA CCGATGTTAC AACGTACTAT	240
	TACGATTGCT GCGAAAGAAG GTATTAAAAA TATACAAATA GGCATGGCTC ACCGTGGGAC	300
10	GTTTAAACGT TTTTAACGCA TGTnCTTAGA AAAAACCGTA CGAAATGATG ATTTCn	356
,,	(2) INFORMATION FOR SEQ ID NO: 4070:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4070:	
	AAACGTTTAG GGAAAATTAT CACACAGATA CAACAATACA CAGATATTGA TTACCCGATA	60
	GCGATTGTCT TTCAAGCATC GTGTTTTAAC GAGTTTGTTG TTAAGGGGCG TTTAAGTAAT	120
25	ATTATTTCAA AATTGCAACA CTATTCAATT GAGGCGAAAC CAGGTATATG TATTATAGGG	180
	GAAGTTGTTG ATTATACTGA AAACACTCCT AAATCATATG ATCCTATGAA GCAATTTTAT	240
30	GTAGTAAGTG GTTCTAAACA TGACGCCCTT ATGCTCTGTG AACATTATAT GACGAAGGTT	300
	ATGGCTGTTG CTAAACCCCA ATGATACATC GAATGGGCAC CATTATCCAM TCGTCGCAAT	360
	AATGGATTAC CCAAGGATGC CATITANTTA AGCCNGCCAN	400
35	(2) INFORMATION FOR SEQ ID NO: 4071:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
46	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4071:	
45	CCTCTGGAAA CCTTAGTCAA TCGGTGGACG GGATTCTCAC CCGTCTTTCG CTACTCACAC	60
	CGGCATTCTC ACTTCTAAGC GCTCCACATG TCCTTACGAT CATGCTTCAA CGCCCTTAGA	120
50	ACGCTCTCCT ACCATTGTCC AAAGGNATNC CCACAGCTTC GGTAATATGT TTAGCCCCGG	180
	TACATTTTCG GCGCATGTGC ACTCGACTAG TGAGCTATTA CGCACTCTTT AAATGGATGG	240
	CTGCTTCTAA GCCAACATCC TAGTTGTCTG GGNAACGCCA CATCCTTTTC CACTTAACAT	300

	T	361
5	(2) INFORMATION FOR SEQ ID NO: 4072: (i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4072:	
15	ATGGTGACAA AAACATCGCA TTATTACTAG GTGTCGGCAC AGGCGTTTGT GGTGCTGCTG	60
	CTATTGCCGC AGTCGCTCCA ATATTCAAAT CACGTGAAAA GGATACAGCT ATTAGTATCG	120
	GTATCATCGC ATTGATTGGT ACGATATTTT CACTTATATA TACAGCTATC TACGCTATCT	180
20	TTTCAATGAC GACAAATGTT TATGGCGCTT GGTCTGGTGT TAGTCTTCAT GAAATTGnCA	240
	CACGTTGTCT TAGCTGGTGG. CTTTGGTGGT AGTGATGCAC TTAAAATTGC ACTTCTTGGT	300
25	AAACTTGGTA GGAGTATTCT TACTGGATTC CCATTAACCA TCGTACTTAA TTTTAAATAT	360
20	GCGGTTnCCG TTnCATCAGG AnTCATCTAG GCAAGGGGTC	400
	(2) INFORMATION FOR SEQ ID NO: 4073:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4073:	
	GCGACGATCA TTTTAGAATC CGCTTGGGCG ATTAATTCTT TAGAAGTGGA TGAGGCAAAA	60
40	TGTTCATTAT CAGGAACTAA AGCAGGTGCT GATATGAAAG ATGGTCTACG TATTCATGGT	120
	GAAGACATGG GTACACTITA TACCAAACAC GTTGAATTGG AAAACAAAGG CGTCGACTTT	180
45	TATGAAGGTA ATGAAGTGGA TGAAGCTGAA GAAGAAGCAA AAGCTTGGAT TGATGCAGTT	240
	GTAAATGATA CTGAACCAGT TGTGAACCGG AACAAGCAAT GGTAGTTACC ANAATTCTTG	300
	AAGCGATTTA TCCGTCTGCC AAATCCAGGC CAAAGCCATT TACTTTGGAA TAACATCnTA	. 360
<i>50</i>	CCGGTAAGGG GGCnCATCCT GGACCAAATT TAAAAGTTGG	400
	(2) INFORMATION FOR SEQ ID NO: 4074:	
66	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4074:	
	·	
	TCTTCCTAAT ACCTTTCCAC GATCTTCAGC TGGCGCCTCT GCACTCGCAA ACGCACTTGA	60
10	TGCATCAACA ACACCACCAA ATAGTCCCTG CAATAACCTC ACAAGTACAA ACTGTAATGG	120
	TGTCGTACAC AATGCCATTA AAAATAAGCA TACCGCCAAA CCAAGTAACG CTCTTAACAC	180
	CATCCATTTT CGGCTGATCT TATCACCTAG CTTCCCCCAT ATCGGCGGAG TTATGCATCG	240
15	TCGTTACAGC TGGAGCAGCA ATCGCTATAC CACTCCACAn CTGTATTTCT ACGGACTGAT	300
	AGGATTTTGT AGTGATGACC ATGATGAAAT GGGCAATAAT GGGCACAAGT ACTGTTCAGT	360
	CCAGCCAATC GTTATGAAAC TGGACTGGGG CCATHAAATG	400
20	(2) INFORMATION FOR SEQ ID NO: 4075:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4075:	
	GGTTCAGAAC GTCGTATGNA GTTCGNTCCC TATCCGTCGT GGGCGTAGGA AATTTGAGAG	60
	GAGCTGTCCT TAGTACGAGA GGACCGGGAT GGACATACCT CTGGTGTACC AGTTGTCGTG	120
35	CCAACGCATA GCTGGGTAGC TATGTGTGGA CGGGATAAGT GCTGAAACTC TAAGCATGAA	180
	GCCCCCCTCA AGATGAGATT TCCCAACTTC GGTTATAAGA TCCCTCAAAG ATGATGAGGT	240
	TAATAGGTTT CGAGGTGGAA GCATGGTGAC ATNTGGAGCT GACGAATACT AATCGATCGA	300
40	AGACTTAATC AAAATAAATG TTTTGCGACA AATCCACTTT TACTTACTAT CTAGTTTGAA	360
	TGATAAATTA CATCCATATG	380
45	(2) INFORMATION FOR SEQ ID NO: 4076:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4076:

	TTTGCCTAAT ACTCAGCCTT ACTGCTTAGA CGTGCAATCC AATCGCACGC TTCGCCTATC	120
_	CTACTGCGTC CCCCCATCGA TTAAAACGAT TATAGGTGGT ACAGGAATAT CAACCTGTTA	180
5	TCCATCGCCT ACGCCTGTCG GCCTCAGCTT AGGACCCGAC TAACCCAGAG CGGACGAGCC	240
	TTCCTCTGGA AACCTTAGTC AATCGGTGGA CGGGATTCTC AACCGTCTTT CGCTACTCAC	300
10	ANCEGCATTC TCACTTCTAA GCGGTCCACA TGTCTTACGA TCATGCTTNA AGGCCTTAGG	360
	AAGGTTCCTA CCATGGTCAA	380
	(2) INFORMATION FOR SEQ ID NO: 4077:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4077:	
25	GCAGGTCTGA CTCTAGAGGA ThCCCACGCG CGCAAGATTT AAATCGAAGA AACCAGCAAC	60
	AGATTCCTCA AAATAGCGCG GCGAACAACG AAACATCAAA TAGTGCACCT GCAGCTGGTA	120
	ATGGTGTAGC ATCAACGCCA CCAAGTGCAC CAAGTGGCGA TACTGCACCA AATAATAATG	180
30	TTACGCAAAA TACCGCACCA AATAGTAATA ATGCGCCTGT ATCGACTACA CCACAAAGTA	240
	CAAGGCGGGA AMAAAGATGG TCAAAGTTTT GTAGATATAA CAACAACACA AGTCAGCACA	300
	GCTAACGAGA ACACAAAA CATTACAGAT AAAGATGTTA AATCAATGGA AGCGGCATTA	360
35	ACGGGCTCTT .	370
	(2) INFORMATION FOR SEQ ID NO: 4078:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4078:	
	AAACATTTTA TCAAATGGCA GAAGGACATG TGCCAAGACC ACCAGCGATG GTTGAAACAT	60
50	TGACTTATAT TAAAGAGTTT ATGAACCAAG TTGAGTCGCA TAGCTAGTAT GAAACGTGGT	120
	GTGCGCATGG GAACTATCAA GCTTTGAAGA TGTGGTACTA CATGCGTTGG AATTAGGGAT	180
	CGGTACTITA TATGAAGACG TGCTGCTTCC ATTAAATGAG TGATGCGATT TTGGCATGAA	240
<i>55</i>		

	IMANGAGE CANCENTIGE INGAMETANC ANCOGETIGGE TETETAMETA	331
	(2) INFORMATION FOR SEQ ID NO: 4079:	
6	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4079:	
15	TTGAAGTAAC TAAATTAATA TTATGTTGTT CAATTAAAAG CTTCATACAA ACCTAATCTA	60
	TTTGCACTCC ACCGCTAACA CCGAACACTT GTCCGGTTGT ATAACTTGAT TCTTCTGACG	120
	CTAATAGCAC ATAAGTTCCA CATAACTCAA CAGGTTGACC TGCACGACCT AAAGGTGTTT	180
20	TTTGACCAAA TGTTGGGATT TTACTTTGAG GTTGTCCACC AGAAATTTGT AATGGTGACC	240
	AGAATGGACC AGGCGCTACA CAGTTCACTC TAATTCCTTT TGGTCCTAAT TCTTCTGAAA	300
	AACTTTTAGT TAATGAAATA ATTGCTGCCT TTTGAAGGGG CATAATCCAT GAAGAATANG	360
25	GCCAGGGANT AAAACCCTGG ACNAAAGAAG CCGTGGAAAT	400
	(2) INFORMATION FOR SEQ ID NO: 4080:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4080:	
	TCGTTGGACA CAATCTGAAA AATAAATAGA TATAAATTCG CGAGATATAT TCGTATTTAT	60
40	AGTAAAATTA AATAAAGAGA TTATATAACA CGAGGAGTAG TAAGTATGAA ATTTGAGAAA	120
	TATATAGATC ACACTTTATT GAAGCCTGAG TCAACACGTA CGCAAATCGA TCAAATCATC	180
	GATGAAGCGA AACATTACAA TTTTAAATCT GTATGTGTGA ATCCAACACA TGTTAAATAT	240
45	GCAGCAGAGC GACTAGCTGA TTCAGAGGTG CTCGTTTGTA CGGTAATAGG ATTCCCATTA	300
	GGTGCGTCGA CAACTGGCAA CGAAAGCATT TGAAACAGAA GATGCAATTC AAAATGGTGC	360
50	AGATGAATTG GACATGGTCA TCCACATCGG CGCATTAAAA	400
	(2) INFORMATION FOR SEQ ID NO: 4081:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4081:	
	CGACTAGTGA GCTATTACGC ACTCTTTAAA TGATGGCTGC TTCTAAGCCA ACATCCTAGT	60
10	TGTCTGGGCA ACGCACATCC TTTTCCACTT AACATATATT TTGGGACCTT AGCTGGTGGT	120
	CTGGGCTGTT TCCCTncncg AACACGGACC TTATCACCCA TGTTCTGACT CCCAAGTTAA	180
	ATTAATTGGC ATTCGGAGTT TGTCTGAATT CGGTAACCCG AGAGGGACCC CTCGTACCAA	240
15	ACAGTGCTCT ACCTCCAATA ATCATCACTT GGAGGCTAGC CCTAAAGCTA TTTACGGAGA	300
	GAACCAGCTA TCTCCAGGTT CGATTGGAAT TTCTCCGCNA CCCTCAGTTC ATCCGCTCA	359
	(2) INFORMATION FOR SEQ ID NO: 4082:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		•
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4082:	
3 0	TTTGACATTT AGTGTAAGCG THTTACAAAT AAAGCGTGTT GTTTTTGAAT TAAATGCATT	60
	TCACATTAGT ATTCATATTA TTTTTAGGAG GAATTTATAT GACATTTGAA AAAGAAACGG	120
	TCTTAAAAAC ATTATTTCCT GAAGATGTAC TTAGTATTGC TAAAGGTTTA ACAGACGGTG	180
35	AAGTCGAATT TTTACAACAA GTAGATTCAT TGGCTAGAAA GTAAGTACCG TGGAAAATAT	240
	TAATCAACAT TGGATAGACG CTACTGTACC CGAGGACTAT TTTAAAGATC TGGGGAGAAT	300
40	TAAATTATTT TAACAATCCA TTACTTTACA AGGGATCGTC CAAACGCCAA AnGGCCTAGT	360
40	CCAACTATTT nCAGTTTTT	379
	(2) INFORMATION FOR SEQ ID NO: 4083:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4083:	
	TTGAAACAGC CAGAGGTGTT TTATACCCAG GTGTTTCAGA TATGTATGAT GCGAAACAAT	60
55		

	TTGGAACATA TGGTCCTAAC AAAGATGTTG TAGGCATATC TACTCGTCTT ATTAGAGTGA	180
	CATATGATAA TAGACAAACA GAAGATITAA CTATTTTATC TAAAGTTAAA CCTGACCCAC	240
5	CTAGAATTGA CGCAAACTCT GTGACATATA AAGCAGGTCT TACAAACCAA GAAATTAAAG	300
	TTAATAACGT ATTAATTAAC TCGTCCGTGA AATTATTTAA GCCGATAATA CACCATTAAA	360
	TGTmCmCAAT ATTACCCmGG GTAGCGGGTT TTAGTTCCGG	400
10	(2) INFORMATION FOR SEQ ID NO: 4084:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4084:	
	AGCATATCGT CGTTAGTAAC GTCCTTCATC GGCTTCTAGT GCChAGGCAT CCACCGTGCG	60
	CCCTTAATAA CTTAATCTAT GTTTCCATCC TACAGGAAAC GCGTTAGTAA TCTTGTGAGT	120
25	GTTCTTTCGA ACATAGCGAT TATTTCTTAT GAATTCAAGC TTATTTAAAA CTCTTTATTC	180
	ACTCGGTTTT GCTTGGTAAA ATCTATATTT TACTTACTTA TCTAGTTTTC AATGTACAAT	240
	TTCTTTTAG TCAAGCGCTC GCATAAGCAA TATCACTTTA ACCAAAAAAT ATTTGAATGT	300
30	TAAATAAACA TTCAAAACTG AATACAATAT GTCACATTAT TCCGCCATCT nCTGAAGAAG	360
	ATGTTNCCGA ATATNATCCT TAGAAAGGAG GTGGATCCCA	400
35	(2) INFORMATION FOR SEQ ID NO: 4085:	
33	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4085:	
45	TTACTTATCT AGTTTTCAAT GTACAAATAA TGGTGGAGAC TAGCGGGATC GAACCGCTGA	60
	CCTCCTGCGT GCAAAGCAGG CGCTCTCCCA GCTGAGCTAA GCCCCCAAAT AGGTATTAAA	120
	TTAATGGTGG GCCTAAGTGG ACTCGAACCA CCGACCTCAC GCTTATCAGG CGTGCGCTCT	180
50	GAACCAGCTG GAGCTATAGG CCCATTAATT TGGAATGAAC AAACATTCAA AACTGGAATA	240
	CAATATGTCA CGTTATTCCG CATCTTCTGG AAGAAGATGT TTCCGAATAN ATCCTTANGA	300

	AAGCATTTGT TCCCACCTTC GACGGCTGAG CTCCTAAAAG	400
	(2) INFORMATION FOR SEQ ID NO: 4086:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4086:	
15	GTCATTGGAA ACTGGAGNAC TTGAGTGCAG AAGAGGAAAG TGGAATTCCA TGTGTAGCGG	60
	TGAAATGCGC AGAGATATGG AGGAACACCA GTGGCGAAGC GACTTTCTGG TCTGTAACTG	120
	ACGCTGATGT GCGAAACGTG GGGATCAAAC AGGATTAGAT ACCCTGGTAG TCCACGCCGT	180
20	AAACGATGAG TGCTAAGTGT TAGGGGGTTT CCGCCCCTTA GTGCTGCAGC TAACGCATTA	240
	AGCACTCCGC CTGGGGAGTA CGACCGCAAG TTGNAAACTC CAAAGGAATT GACGGGCGCA	300
	CAAGCGTGGG AGCATGTGGT TTAATTCGAA CCAACGNATA GAACCTTACC AAATCTTGGA	360
25	c .	361
	(2) INFORMATION FOR SEQ ID NO: 4087:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4087:	
	GACCTTGCAG GACTCGAACC TGCGACCGAA CGGTTATGAG CCGTTAGCTC TAACCAACTG	60
40	AGCTAAAGGT CCTAAATATA ATTTTACAAC TAATAAATAG TGGCGGTGGA GGGGATCGAA	120
	CCCCCGACCT CACGGGTATG AACCGTACGC TCTAGCCAGC TGAGCTACAC CGCCTTATAT	180
	AGTTTGTAAA TAATATGGTG GAGACTAGCG GGATCGAACC GCTGACCTCC TGCGTGCAAA	240
45	GCAGNCGCTC TCCCAGCTGA GCTAAAGCCC CCATAAATAA TTACAGTATA TCGGGAAGAC	300
	AGGATTCGAA CCTGCGACCC CTTTCCCAAA CCAAGTGCTT TTACCAAGTT GGTACTTCCn	360
	GTATAATTTA ACGGGCCCGA TAGGAGTTCG GAACCCTTAA	400
60	(2) INFORMATION FOR SEQ ID NO: 4088:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4088:	
	AGCTATTATT TTTGACAGAT TCCATATCGT TCAACATTTA AATAGAGAAC TTAATAAGTA	60
10	TCGTGTACAA GTTATGAATG AATACCGTAA TAAAAAAGGA CCTGATTATA CAATTTTTAA	120
	GAATAACTGG AAAGTCCTAT TGATGGATAC TAGTAAAACC ATATTTAGTA AATACAGATG	180
	GAATAAATCT TTTAAGGCTT ATAAACGCTC ATCTGACATT GTAGGAATTC ATGCTTTCAA	240
15	AAGACGATAT ACTACGACAC TCCTACGAAC TTGTCCCAAG GGATTACGGA AAAGGCCCTA	300
	AGGGTTATGT TAATTGGCCC TAAATTTATT AAATGCGTTT GAAATTCAGT TAGTTAAAAA	360
	GTCTGTGAGT GANGGGTGTA TGGGAAAGTG GTTAAAATAT	400
20	(2) INFORMATION FOR SEQ ID NO: 4089:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4089:	
	ATCGTTTTAG ATAAGACGGG TACATTACAA ATGGTCGTCC AGTCGTGACA GATTATCATG	60
	GTGACAATCA AACGCTACAA CTACTTGCTA CTGCTGAAAA AGATTCTGAA CACCCATTGG	120
35	CAGAAGCCAT TGTCAATTAT GCAAAAGAAA AGCAATTAAT ATTAACTGAG ACAACAACAT	180
	TTAAAGCAGT ACCTGGGCCA TGGTATTGAA GCAACGATTG GATCATCACC ATATATTGGT	240
	TGGTAACCGT GAAATTAATG GCTGACAATG GATATTAGCT TGCCTAAGCA TATTTnnGGA	300
40	TGGATTTAAC ACATTATGAA CGAGATGGTA AAACTGCTAG CTCATTGCTG TTGAATTATT	360
	nCATAACGGT ATCA	374
45 60	(2) INFORMATION FOR SEQ ID NO: 4090: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2820

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4090:

	TTAATAACGT ATTAAATAAC TCGTCAGTAA AATTATTTAA AGCAGATAAT ACACCATTAA	120
	ATGTCACAAA TATTACTCAT GGTAGCTGTT TTTGTTCGGT TGTGACAGTA AGTGACGCGT	180
5	TACCARATGG CGGAGTTARA GCARARTCTT CARTTTCART GRACARTGTG ACGTATACGA	240
	CGCAAGACGA ACATGGTCAA GTTGTTACAG TAACAAGAAA TGAATCTGTT GATTCAAATG	300
10	ACAGTGCACC AGTAACAGTG ACACCACAIT TACAAGCAAC TACTGAAGGC GCTGTATTTA	360
	TTAAGTT	367
	(2) INFORMATION FOR SEQ ID NO: 4091:	
15 _]	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4091:	
	TAATATTATA TIGCTAGTAG TIGACTGAAT GAAAATGCGC TIGCAACAAG CITTITICAA	60
25	CTCTAGTCAG GGGCCCCAAC ACAGAGAATT TCGAAAAGAA ATTCTACAGG CAATGCGAGT	120
	TGGGGTGTGG GCCCCAACAC AGAGAATTTC GAAAAGAAAT TCTACAGGCA ATGCGAGTTG	180
30	GGGTGTGGGC CCCAACACA AGAATTTCGA AAAGAAATTC TACAGGGCAA TGCGAGTTGG	240
	GGTGTGGGCC CCAACATGAG AGAAATTGGA TTCCCAATTT CTGACAGACA ATGCAAGTTG	300
	GCGGGGGCCC CAACACAGAA GCTGGACGAA AATCCTTGAA CGAATGAATG TGGCAATTGG	360
35	CGGGGGCCCA ACACAGAAGN TGACGAAAAT nCTnGAACCA	400
	(2) INFORMATION FOR SEQ ID NO: 4092:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4092:	
	GCATTTCTCA TAACACAAGG AATTTCAACA AGTCCGGCTA CTGGATCACA AACTAAACCT	60
	AATAAATTAC TTATCGCTAA TGCCATAGCG TGCCCGGATG CTTCTGGTGA TCCTCCGAAT	120
50	ATAGCTACTG CTGCAGCTGC GGCCATTGCA GATGCTGAAC CAACTTCAGC TTGGCAGCCA	180
	CCTGTTGCAC CAGCTACACT TGCATTGTTT GCTACGACAC GCCCAAACAA TGCTGAAGTG	240

	CCCATCGCAG	360
	CATTTGACCT TCATTTGGTT GCAATGGGAA CCTTTGACTG	400
5 ,	(2) INFORMATION FOR SEQ ID NO: 4093:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4093:	
	TGACTTACGT ACTGTTCAAC CAATCGATGT TGACACAATT GTAGCTTCAG TTGAAAAAAC	60
	TGGTCGTGCA GTTGTAGTTC AAGAAGCACA ACGTCAAGCT GGTGTTGGTG CAGCAGTTGT	120
20	AGCTGAATTA AGTGAACGTG CAATCCTTTC ATTAGAAGCA CCTATTGGAA GAGTTGCAGC	180
	AGCAGATACA ATTTATCCAT TCACTCAAGC TGAAAATGTT TGGTTACCAA ACAAAAATGA	240
25	CATCATCGAA AAAGCAAAAG AAACTTTAGA ATTTTAATAC ATTTTAAAAG TTAACGAATT	300
23	AGCGTATTTT AGTCTCATTG ATTAANATGA AATGNGNTAA TTTACGGAAT CCTA	354
	(2) INFORMATION FOR SEQ ID NO: 4094:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4094:	
40	CGTTAACATG AAGTTACGTT CTTTTATAAA AAGATTTAAA CGCGTTATTA ATCTTGTGAG	60
40	TGTTCTTTCG AACACTAGCG ATTATTTCTT ATGAATTCAA GCTTATTTAA AACTCTTTAT	120
	TCACTCGGTT TTGCTTGGTA AAATCTATAT nTTACTTACT TATCAAGTTT TCAATGTACA	180
45	AATAATGGTG GAGACTAGCG GGATCGAACC GCTGACCTCC TGCGTGCAAA GCAGGCGCTC	240
	TCCCAGCTGA GCTAAGCCCC CAAATAGGnA TTAAATTAAT GGTGGGCCTA AGTGGACTCG	300
	AACCACCGAC CTCACGCTTA TCAGGCGTGC GCTCTAACCA GCTGAGCTAT A	351
<i>5</i> 0	(2) INFORMATION FOR SEQ ID NO: 4095:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 384 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4095:	
5	ATTGTTGCGA CTGGCACACC CGAAGATATT GCTCAGACAA AGTCATCATA TACAGGAAAG	60
-	TATTTAAAAG AAGTACTTGA ACGAGATAAA CAAAATACTG AAGATAAATA AGATTAAAAG	. 120
	AAGTGAAGGA TGTTATAATT TATCCTTCGC TTCTTTTTAT TAATTTAGTA ATGAATAGTA	180
10	GAAAGAAAG ATGCGTAAAA AGAATTATGT TAAGATAGGG TCAATCTAGA GTAGTTAAAC	240
	ATAAATCGAA CTmGGAGTGG GACAGAAATG ATAAAGAATC ACTAATGATT TATTATGTAG	300
	TGGTTCTTTG TCATTAGCCA CAGCTATTTG TGTACTTAAA ANTAGGTATG CCAGTGTGCA	360
15	CTCCTTGAGA GGAAATACTn ATTT	384
	(2) INFORMATION FOR SEQ ID NO: 4096:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4096:	
	CTGCATCTTC ACAGGTACTA TGATTTCACC GAGTCTCTCG TTGAGACAGT GCCCAAATCG	60
30	TTACGCCTTT CGTGCGGGTC GGAACTTACC CGACAAGGAA TTTCGCTACC TTAGGACCGT	120
	TATAGTTACG GCCGCCGTTT ACTGGGGCTT CGATTCGTAG CTTCGCAGAA AGAGCCGACT	180
	CCTCTTGAAC CTTCCAGCAC CGGGCAGGCG TCACCCTGAT GACATCACCT TACGGTTTAG	240
35	CAGAGACCTG TGTTTTTGAT AAACAGTCGC TTGGGCCTAT TCACTGCGGC TCTTCTGGGC	300
	GTTAACCCTn AAAGAGCACC CCTTCTCCCG AAATTNACGG GGTCATTTTG GCCGAGTTCC	360
40	TTAACGAGNA TTCGCTCGGT GCAACTT	387
	(2) INFORMATION FOR SEQ ID NO: 4097:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4097:	
	CCACTCACAT TCACACATCG ATTCACACAC CGCACTCAGC ACTCAGNATA CCGCATTCAG	60

	TCAGATAGCG ACTCAGATTC GGATAGCGAC TCAGACTCAG ATAGCGATTC AGATTCAGAT	180
	AGCGATTCGG ACTCAGACAG TGATTCAGAT TCAGACTCAG ATAGCGACTC AGATTCTGAC	240
5	AGCGATTCAG ACTCAGACAG CGACTCAGAC TCAGACAGTG ATTCAGATTC AGACAGCGAC	300
	TCAGATTCAG ATMGCGACTC AGACTCAGAT AGCGACTCAG ATTCAGATAG CGATTCGGAC	360
	TCAGACAACG ACTCAGATTC AGATAGCGAT TCAGATTCAG	400
10	(2) INFORMATION FOR SEQ ID NO: 4098:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4098:	
	TCGTACCTGA ACTACTTTGT ATTAAAATAG TTACAACGAT ACCTGCAATA ACACCTAATA	60
	CTGGATTTGA TGTAAATTTG TTTAAAATAT CTCGTAGCCT GTCTCCTGCT GATGCTTGAA	120
25	GCCCGTCTCC CATGATTTTT AAGCCGTAAA GGAAAATACC TAAACCACCT AAAAAGGAGA	180
	AAATGACTTC TGTAACCGAC ATTTCCATTA TTTCACCTCA AATAAGCTTT ATATTTAGAT	240
30	TATCGCTTAT AATTGTAAAT TTAATGTTAA GATTAGGTAA AATTATTTAA CAATATATGT	300
30	TATTTGTATA TGACTTGTAA AATATCGTCA CTTATTATGT AAATTTTCAG TGGTGGNAAT	360
	GGCCAGTTTG CCAAGCACTG GTTTGACCAN ATGGNGGCAN	400
35	(2) INFORMATION FOR SEQ ID NO: 4099:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4099:	
45	ATCCTTTTCC ACTTAACATA TATTTTGGGA CCTTACCTGG TGGTCTGGGC TGTTTCCGGA	60
	CCGAACACGG NACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG	120
	AGTTTGTCTG AATTCGGTAA CCCGAGAGGG CCCCTCGTCC AAACAGGGCT CTACCTCCAA	180
50	TAATCATCAC TTGAGGCTAG CCCTAAAGCT ATTTCGGAGA GAACCAGCTA TCTCCAGGTT	240
	CGATTGGAAT TICTCCGCTA CCCTCAGTTC ATCCGCTCAC TTTCAACGTA ATCGGTTCGG	300

(2) INFORMATION FOR SEQ ID NO: 4100:

55

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4100:	
	TAGAACTTGT TGCCAAACAG CATGCTTAAT TTCAATATCT TCTTTGACTG CTTCGATATA	60
15	TARATCAGCA TCATCATTTA CCAAGTCATC ATCAAAATTA CCATATGTTA AATGACTCGC	120
	TAGATITAAG TCGAATAGTA GCGGCCGTTT CTTATCTGTA ATTITATCGT AAGATITTTT	180
	CGCAATGAGA TTTGGATCGT TTTTGTCCAC TACAATATCT AATAGTTTTA CTTTAAGTCC	240
20	AGCATTCACA AAAAGTGCTG CCAGTTGGAG CGCCCATTGT GCCTGCGCCA AGAACGGnTA	300
	CTTTATTAAT TGGTCATAGT GANTCCNCCC ATTTAGTTGA GGGATAAGAT AACCATT	357
<i>25</i>	(2) INFORMATION FOR SEQ ID NO: 4101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4101: TAACTCAGGC TGGGGACATA AATCAATATT CTATGCTCTA CGAATTATAT TGGCAGTAGT	60
35		
	TGACTGGCG AAAATGCGCT TGTAACAAGC TTTTTTCAAT TCTAGTCAGG GGCCCCAACA	120
40	CAGAGAATTT CGAAAAGAAA TTCTACAGGC AATGCGAGTT GGGGTGAGGG CCCCAACACA	180
40	GAAGCTGACG AAAAGTCAGC TTACAATAAT GTGCAAGTTG GGGATGGGCC CCAACAAAGA	240
	GAAATTGGAT TCCCAATTTC TACAGACAAT GCAAGTmGGG GTGGGACGAC GMGATAAATT	300
45	TTGCGAAAAT ATCATTTCTG TCCCACTCCC ATCAAAAGAA TGACAT	346
	(2) INFORMATION FOR SEQ ID NO: 4102:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ANTONIONA ATCANTIAGA CANGCAGO ANTIAGGA ATGICGCOTC ATTIAGGAN	60
	GCGATTCACA ATCGAGAATC ACAAAGTACA ACTGGTATCG GCGAAGGTAT TGCCATTCCA	120
5	CATGCCAAAG TGGCCGCAGT TAAGTCACCA GCTATTGCGT TTGGTAAATC TAAAGCAGGC	180
	GTAGATTATC AAAGTTTGGG ATATGCAACC AGCACACTTA TTCTTTATGA TTGCAGCGCC	240
10	AGAAGGTGGC CCCAAACACA TTCTAGATGC TTTACTAAAG TTGnCTGGTA TTTTAATGGG	300
10	ATGAAAATGT ACGTGAGGAA ATTNTTACAT GGCTTCATCA NCTGAAGAAG TACTAGCGAT	360
	CAT	363
15	(2) INFORMATION FOR SEQ ID NO: 4103:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4103:	
25	GAGTGCAGCG GATAACATTA AACCGACGAC ANCTITITTA TGTTCAGGTT TAGCTGTGTG	60
	ATAAATTGCA AGTGCGGCAC CACATAAGCC GAACATCATC GTAATAAAAC GGCCTGACAT	120
30	AAAGCGTGAC ACACCTGAAT AATACTTCGT CACATCTGGa TCACCAAGTT GAGCAAAGAA	180
	GATGTTCTGC GTACCTTGAA CTAAGTGCCC TTTGACTTCT AAAGTACCAC CAAGTGCCGT	240
	CTGCCAAAAC GGTAAGTAAA AAATATGGTG TAAACCGAGT GGACCTAACA ATCTTAAGAT	300
35	GAAGCCATAA rCAAAAGTAC CSGTTGGCAC CTGTTtTCGT TACAAATCCA CCAACATGtk	360
	AATGCCGGTT TGTATGGTTG GCCCAANTGA NAACATCATA	400
40	(2) INFORMATION FOR SEQ ID NO: 4104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4104:	
<i>60</i>	AATTGAGAAT TTGTCGCTAT TTGTAAATTG TATCCTGGCT TAAGTTGGCC AAAGTGTCTT	60
-	ATTTTTTTAA AGTATTTAAA AGTAAAATTA CATGTTAATA CGTATATTAA TTGGCGAGAC	120
	TCCTGAGGGA GCAGTGCCAG TCGAAGCAGG GGCCCCAACA CAGAAGCTGA CATATAGTCA	180

	CHAMARITET ATTIATAGAA TITTACAGTA ATGIGCCAGA TGGGCATAGC GACCCATTCA	300
	ATACGANTAT NTGANTAAAT AGAGAACAGC AGTAAGATAT TTTCTAATTG AAAATTAT	358
5	(2) INFORMATION FOR SEQ ID NO: 4105:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4105:	
	GACGCGTTAC CARATGGCGG AATTAAAGCA AAATCTTCAA TTTCAATGAA CAATGTGACG	60
	TATACGACGC AAGACGAACA TGGTCAAGTT GTTACAGTAA CAAGAAATGA ATCTGTTGAT	120
20	TCAAATGACA GTGCAACAGT AACAGTGACA CCACAATTAC AAGCAACTAC TGAAGGCGCT	180
	GTATTTATTA AAGGTGGCGA CGGTTTTGAT TTCGGACACG TGGAAAGATT TATTCAAAAC	240
	CCGCCACATG GGGCAACGGT TGCATGGCAT GATAGTCCAG ATACATGGAA GGANTACAGT	300
25	CGGTAACACT TCATAAAACT GCGGTTTGTn ACCATTACCT AATnGTCAAG GGTACGGCGT	360
•	TAATGTTTGA AGGTTCCCGT TCCAAGGTTT TTTCCCGTTT	400
30	(2) INFORMATION FOR SEQ ID NO: 4106:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4106:	
40	GAAGTTAAGC TCCTTAGCGT CGATGGTAGT CGAACTTACG TnCCGCTAGA GTAGAACGTn	60
	TGCCAGGCAG TTTTTTAATC AAATTTTGGT TAAAAAATAA AATGGACAAG ATAAAAAAAG	120
	TTATTGACTT AAATGTTAAT AAAATGTATA ATTAATTCTT GTCGGTAAGA AAAATGAACA	180
45	TTGAAAACTG AATGACAATA TGTCAACGTT AATTCCAAAA AACGTAACTA TAAGTTACAA	240
	ACATTATTTA GTATTTATGA GCTAATCAAA CATCATAATT TTTCATGGGA GAGTTTGGAT	.300
60	CCTGGGCTCA GGATGGAACG CTGGGCGGCG TGCCCTAATA CATGGCAAGT CnGAGCGAAC	360
<i>50</i>	GGGACGAGAA GGCTTTGCTT CTCCTGGATG TTAACCGGCn	400
	(2) INFORMATION FOR SEQ ID NO: 4107:	
55		

5	(A) LENGTH: 343 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4107:	
10	GATTGTGCCA CGCTTTTAAC CGAAATACAA CATCATCATT GACAATTTGT TGATTTGAAA	60
	AATCTTTCTC TTCAATAAAT ACATACGTTT GCATCGTATG TGCTTTCATG TAACTCAATA	120
	TTGGTTTTAA ATGCATTTCA GGAATTAAAT AATGTTTACT AGAACCTGCT GTCGCTACAA	180
15	GTCCTATTAC CTTGTCACGA AACGCATTGA CTGGAAGTAG ATCAAACACA TTTnnCAAAG	240
	CACCAGGGAT GGAAAGCTTG AAAAATTGGA AAACCAATAA AAATCACATC AGCCTGCATT	300
	AACGACGTCG TTAATTTATA TACATCTCCT GTAGTATCTA GnT	343
20	(2) INFORMATION FOR SEQ ID NO: 4108:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4108:	
	ATACAAAACA CCAGGTCGTG AAGATAAACA ATCACAAGCG GCTACTGCTT CAGCAACTGA	60
	ATTACCATAT GCAGTATTAG AAGCTATGGG TGGCAAAGCA AACATTAAAC ATTTAGACGC	120
35	TTGTATCACA CGTCTACGGT TGAAGTTAAC GACAAATCTA AAGTTGATGT TCCTGGTTTG	180
	Anagatitag gcgcatctgg tgtattagaa gtcggcaata atatgcaagc aatttitggt	240
	CCTAAATCTG ACCAAATCAA ACATGAAATG CAACAGATTA TGADTGGTCA AGTAGTAGAA	300
40	AATCCTACTA CTATGGAAGA CGATNAAGAC GAAACTGTTG TGGGTTGGCA G	351
	(2) INFORMATION FOR SEQ ID NO: 4109:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
6 0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4109:	
	CCTTTTCAA AATCATTGGA TGCATCGATA AATAGTACGT TGTCGTCTTG TTGGCGACAT	60

	CCAATCACGG CTTCTAAGTA GTTCTTTTCT TCTATTAAAT AGCGACGNAT CACACCTTCT	180
	GCGGCACCAC GGAATAATAC ACCATGTGGG AGTACGACTG CNATGGTACC TTCATCGTCT	240
5	AAGGTAATGT ACCCTGTGGT TGAATAAAGG CAAAATCTGC TTTGGGGATTT TGGCGCAACT	300
	TTGCCCGTAA CCACTGAATC GTTCATCATT TTCAAATTTT TGAATCNGCT GGTCCATTCG	360
	CACTGTA	367
10	(2) INFORMATION FOR SEQ ID NO: 4110:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4110:	
	GTCGTCCGAT TGAAGGATGG AGTACTGTCG CATTTGCGAA AGACTGGCAA GGACCACCAC	60
	GTTTGCAAAA CGGAACAAGT TGGTTCTATT TTGCAACAGA CCAATGGAAA TATGAAGAGT	120
25	CAAATGTAGA TCGTTTAAAA TCTCCATTAG CTAAAACAGA GGAGTTAAAG CATCAACATC	180
	CAGCTGATTA TAATGTTTTA GCAGCTAGAC TTGGTTGGTT ACCATCATAT CCACAATTTA	240
	ATAAAAATAG TTTGTTGTTT GCAGAAGAAG CTAAAGATGA AGGTATAGAT TCAAATGAAG	300
30	CGATTTTGCC ACGTGCAATT GATGAAGTGA ATCAAAACCA AACACCATTT GCCATANGAA	360
	AATCCTGATT TGGAAAAGGA TCCTnCCAAA ATCCAnnATT	400
35	(2) INFORMATION FOR SEQ ID NO: 4111:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
40	(E) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4111:	
45	TCAGATGAAG CTAAAAGTAA AGGTATTACA TGTGCAAGTG CAGGTAATCA TGCTCAAGGT	60
	GTTGCCTATA CAGCTAAAAA ACTTAATTTA AACGCTGTTA TCTTTATGCC AGTCACTACA	120
	CCTTTACAAA AGGTAAATCA AGTAAAGTTC TTTGGAAATA GTAACGTTGA AGTTGTACTC	180
50	ACTGGTGATA CATTTGATCA CTGTTTAGCT GAAGCTTTAA CTTATACAAG TGAACATCAA	240
	ATGAACTTTA TAGATCCATT CAATAATGTT CATACAATTT CTGGACAAGG TACGCTTGCT	300

	MATIGGIGGI GGCGGITTAA TITCCAGTAT TAGTACTAAC	400
	(2) INFORMATION FOR SEQ ID NO: 4112:	
Ė	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4112:	
15	GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA GTCAAACGCT CACATACGGC	60
	TTCGTTTTCA TTATTTTAAA TGCTCATTTA CATAAGTAAA CTCTGCTTTA AAATAATTTA	120
	ACTCATTGTC TGCTAAACGT TTTCTTTTAT AAAAAGATTT AAACGCGTTA TTAATCTTGT	180
20	GAGTGTTCTT TCGAACACTA GCGATTATTT CTTATGAATT CAAGCTTATT TAAAACTCTT	240
	TATTCACTCG GNTTTGCTTG GGAAAATCTA TATTTTACNT ACTTATCTAG TNTTCAATGT	300
	ACAAATAATG GTGGGCCCAA GTGGACTCGA ACCACCGACC TCACGCTTAT CAGGGCGTGC	360
25	GG _	362
	(2) INFORMATION FOR SEQ ID NO: 4113:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4113:	
	CAGGIGGITT TGCGAAAAGT GAAGTATGGC GTCAAATGAT GTCAGATATA TTTGACACAG	60
40	AGTTAGTGGT TCCTGAAAGT TATGAAAGTT CATGCTTAGG TGCCTGCGTG CTCGGACTTA	120
	AAGCTGTAGG TGACATTGAA GATTTTTCAA TCGTTTCATC GATGGTCGGT GCCACAAACA	180
	ATCATACGCC GATTGAAGAA AATGTCACTG TTTACCAAGA GATCGTATCC ATTTTTATCA	240
45	ATTTAAGTCG TTCTTTAACA GAGAATTATG ACAAATTGCA GATTTCAACG CCACATATCG	300
	CTGAAATAAA ACnCCATAAA TACGnCACTC AAGCATCTTA GATAAAGTTG TnGGCCATGC	360
<i>50</i>	TAC	363
	(2) INFORMATION FOR SEQ ID NO: 4114:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs	
55		

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4114:	
	GGTCTGGGCT TGGTTCCGGT TCTGGGTCTG GACTTGGTTC TGGATCTGGC GTTGGTTCTG	60
10	GTTCTGGGTC TGGACTTGGT TCTGGGTCAA CCGGCGGCCC TGGAGTTGGG TCTTTCGGAT	120
	TTACTGCTGA ATCACCATCA GCACTTCCAC CACCATAACG TACAACATTC TCATTATTCC	180
	AACCGAAAAT ACTGTAGTCT CTATTTGTTA CAGGATCAAC ATTTTCTTGA ATAACCTGAG	240
15	TTTTTAAGTT CTTACCTGTA TTGTCGTAAT GCCCTTCTAC TAATACTACA TATGTTTTAG	300
	TAATATCACC AAATTAATAC TAGCTACATT GGATGCnCAT AATAGATCTA TITTAAATGG	360
	nctgtactcc ttaaggtaga gcattggact gcan	394
20	(2) INFORMATION FOR SEQ ID NO: 4115:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4115:	
	GGCGATTATA TTAAAAAGCC AATTACAGAA TGTAGTGGTA ATGAAATATG CCAAGAATGG	60
	CTGTATCACT TAGGTGTATC AACTGACAAA ATTGAAGACT TAGCAAAACA TGCATCTAAT	120
35	ACGATTCCTG TITATATGCC ATATATCACA TCTTATTTCA TGACGCGTGC TATCGGCGAC	180
	AGACCTTTAG TCGTCCCGCA TCAATCTCAG AACTTAGCAT TTATTGGTAA CTTTGCCAGA	240
	AACAGAGCGA GACACTGTAT TTACAACAGA ATATTCGGTT CGTACTGCCA GGGAAGCTGT	300
40	TTATCAATTA CTAAATATAG ATCGTGGTAT TCCAGAAGTC ATCAATAAGT CCATTGGATC	360
	TTnCGCGTnC TTAATGGGAT GGCCATATAC GAACTGGATG	400
45	(2) INFORMATION FOR SEQ ID NO: 4116:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4116:	

ACGATGGACA TITTCCGACT GTTAGGTGTA GAMATCANAG ANGATGATGA ANANTTAGTT GTGACTTCCC CAGGATATCA ATCCTTTAAC ACGCCACATC ANGTATTGTA TACAGGNANA TTCNGGGTAC GACAACACGA TTATAGGTTA TACAGGTATA ANGTGGTTTG GTCNGGGCGA ATGTTTTCCA ATTGGGTANA AGGCCCATGG (2) INFORMATION FOR SEQ ID NO: 4117: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117: AATAAAAAAGG AACAAAACGA TGGCTATTGA TATGGACACA AATCATAAAT AGCTGCTTTG TTCCTTTTTT AATTTATATA TTTANAATAC ACATATTCAA GAGCCTCGAG ATATAAGTCA ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCCCCCGG GGCCCCAACA TGGGGAATT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGCCC CAACATAGAA GCTGGCCAATA GTCAGCTTTC AATAATGTG CCAGTTGGGG TAAGGGCCC AACACAGAG CTGGCCAATA GTCAGCTTTC AATAATGTG CCAGTTGGGG TAAGGGCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAAATTAAGTT GACTACCATC GACCCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGGAACA GGTGTGACCT CCTTGCTATA	TTAAAGGGCG AAATAGAAGT GCCGGGCGAT AAGTCAATGA CACACCGTGC AATCATGTTG	120
GTGACTTCCC CAGGATATCA ATCCTTTAAC ACGCCACATC AAGTATTGTA TACAGGAAAA TTCnGGGTAC GACAACACGA TTATAGGTTG TTAAGTGGT TAGGTATTGA AAGTGGTTTG GTCNGGGCGA ATGTTTCCA ATTGGGTAAA AGGCCCATGG (2) INFORMATION FOR SEQ ID NO: 4117: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117: AATAAAAAGG AACAAAACGA TGGCTATTGA TATGGACACA AATCATAAAT AGCTGCTTTG TTCCTTTTTT AATTTATATA TTTAAAATAC ACATATTCAA GAGCCTCGAG ATATAAGTCA ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCCGG GGCCCCAACA TGGGGAATTT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGGCCC CAACATAGAA GCTGGCCAATA AGTAAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGAGA GCTGGCCAATA AGTCAGCTTTC AATAATGTGC CAAGTTGGGG TAAGGGCCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) Type: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAAATAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	GCGTCGCTAG CTGAAGGTGT ATCTACTATA TATAAGCCAC TACTTGGCGA ATGTCGTCGT	180
TTCNGGGTAC GACAACACGA TTATAGGTTG TTAAGTGGT TAGGTATTGA AAGTGGTTTG GTCNGGGCGA ATGTTTTCCA ATTGGGTAAA AGGCCCATGG (2) INFORMATION FOR SEQ ID NO: 4117: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117: AATAAAAAGG AACAAAACGA TGGCTATTGA TATGGACACA AATCATAAAT AGCTGCTTTG TTCCTTTTTT AATTTATATA TTTAAAATAC ACATATTCAA GAGCCTCGAG ATATAAGTCA ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCCGG GGCCCCAACA TGGGGAATT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGGCCC CAACATAGAA GCTGGCCAATA GTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGGAG CTGGCCAATA GTCAGCTTTC AATAATGTG CCAGTTGGGG TAAGGGCCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAAATAAGTT GACTACCATC GACCCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	ACGATGGACA TTTTCCGACT GTTAGGTGTA GAAATCAAAG AAGATGATGA AAAATTAGTT	240
GTCNGGGCGA ATGTTTTCCA ATTGGGTAMA AGGCCCATGG (2) INFORMATION FOR SEQ ID NO: 4117: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117: AATAMAMAGG AACAMACGA TGGCTATTGA TATGGACACA AATCATAMAT AGCTGCTTTG TTCCTTTTTT AATTTATATA TTTAMAATAC ACATATTCAA GAGCCTCGAG ATATAMGTCA ATGTACTAGG CCACACAATT TAMTATTGAC AGTAMTTACC CGAACGAMAA TGCGCCCCGG GGCCCCAMCA TGGGGAATTT CGAMAMGAMA TTCTACAGAC AMTGCAMGTT GGCGGGGGCCC CAACATAGAA GCTGGCCAMTA GTTAGCTTT CAMTAMTGTG CCAGTTGGGG TAMGGGGCCC AACACAGAGA CTGGCCAMTA GTCAGCTTTC AMTAMTGTG CAAGTTGGGG TAMGGGGCCC CCACCACAGG GAATTTCGAA AGAMATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC	GTGACTTCCC CAGGATATCA ATCCTTTAAC ACGCCACATC AAGTATTGTA TACAGGNAAA	300
(2) INFORMATION FOR SEQ ID NO: 4117: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117: AATAAAAAGG AACAAAACGA TGGCTATTGA TATGGACACA AATCATAAAT AGCTGCTTTG TTCCTTTTTT AATTTATATA TTTANAATAC ACATATTCAA GAGCCTCGAG ATATAAGTCA ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCCGG GGCCCCAACA TGGGGAATT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGGCCC CAACATAGAA GCTGGCCAATA GTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTGC CAAGTTGGGG TAAGGGCCCC CCACCACAGG GAATTTCGAA AGAAATNCT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC	TTCnGGGTAC GACAACACGA TTATAGGTTG TTAAGTGGGT TAGGTATTGA AAGTGGTTTG	360
(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117: AATAAAAAGG AACAAAACGA TGGCTATTGA TATGGACACA AATCATAAAT AGCTGCTTTG TTCCTTTTTT AATTTATATA TTTANAATAC ACATATTCAA GAGCCTCGAG ATATAAGTCA ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCCGG GGCCCCAACA TGGGGAATTT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGCCC CAACATAGAA GCTGGCCAAT AGTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTG CCAGTTGGGG TAAGGGCCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAAATAAGTT GACTACCATC	GTCnGGGCGA ATGTTTTCCA ATTGGGTAAA AGGCCCATGG	400
(A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117: AATAAAAAGG AACAAAACGA TGGCTATTGA TATGGACACA AATCATAAAT AGCTGCTTTG TTCCTTTTTT AATTTATATA TTTAHAATAC ACATATTCAA GAGCCTCGAG ATATAAGTCA ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCCGG GGCCCCAACA TGGGGAATTT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGCCC CAACATAGAA GCTGGCCAATA GTTAGCTTT CAATAATGTG CCAGTTGGG TAAGGGCCCC AACACAGAG CTGGCCAATA GTCAGCTTTC AATAATGTG CAAGTTGGGG TAAGGGCCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAAATAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	(2) INFORMATION FOR SEQ ID NO: 4117:	
ARTANANAGG AACANANCGA TGGCTATTGA TATGGACACA AATCATANAT AGCTGCTTTG TTCCTTTTT AATTTATATA TTTANANTAC ACATATTCAA GAGCCTCGAG ATATAAGTCA ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAANA TGCGCCCCGG GGCCCCAACA TGGGGAATTT CGAANAGANA TTCTACAGAC AATGCAAGTT GGCGGGGCCC CAACATAGAA GCTGGCCAATA AGTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGAG CTGGCCAATA GTCAGCTTTC AATAATGTG CAAGTTGGGG TAAGGGCCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	(A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
TTCCTTTTT AATTTATATA TTTAMAATAC ACATATTCAA GAGCCTCGAG ATATAAGTCA ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCCGG GGCCCCAACA TGGGGAATTT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGGCCC CAACATAGAA GCTGGCCAAT AGTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTG CAAGTTGGGG TAAGGGGCCC CCACCACAGG GAATTTCGAA AGAAATTCT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAATTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4117:	
ATGTACTAGG CCACACATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCCGG GGCCCCAACA TGGGGAATTT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGGCCC CAACATAGAA GCTGGCCAAT AGTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTGC CAAGTTGGGG TAAGGGGCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAAATAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	AATAAAAAGG AACAAAACGA TGGCTATTGA TATGGACACA AATCATAAAT AGCTGCTTTG	60
GGCCCCAACA TGGGGAATTT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGGCCC CAACATAGAA GCTGGCCAAT AGTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTGC CAAGTTGGGG TAAGGGGCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAAATAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	TTCCTTTTTT AATTTATATA TTTANAATAC ACATATTCAA GAGCCTCGAG ATATAAGTCA	120
CAACATAGAA GCTGGCCAAT AGTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTGC CAAGTTGGGG TAAGGGGCCC CCACCACAGG GAATTTCGAA AGAAATACT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	ATGTACTAGG CCACACAATT TAATATTGAC AGTAATTACC CGAACGAAAA TGCGCCCCGG	180
AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTGC CAAGTTGGGG TAAGGGGCCC CCACCACAGG GAATTTCGAA AGAAATTCT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	GGCCCCAACA TGGGGAATTT CGAAAAGAAA TTCTACAGAC AATGCAAGTT GGCGGGGCCC	240
CCACCACAGG GAATTTCGAA AGAAATTCT (2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	CAACATAGAA GCTGGCCAAT AGTTAGCTTT CAATAATGTG CCAGTTGGGG TAAGGGCCCC	300
(2) INFORMATION FOR SEQ ID NO: 4118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	AACACAGAAG CTGGCCAATA GTCAGCTTTC AATAATGTGC CAAGTTGGGG TAAGGGGCCC	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	CCACCACAGG GAATTTCGAA AGAAATnCT	389
(A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118: AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	(2) INFORMATION FOR SEQ ID NO: 4118:	
AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	(A) LENGTH: 371 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	•
TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAANTAAGTT GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4118:	
GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC	60
	TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAAnTAAGTT GACTACCATC	120
GTCACCAGAC ATATGAATGT AATTTATACA TTCAAAACTA GATAGTAAGT AAAAGTGATT	GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT CCTTGCTATA	180
	GTCACCAGAC ATATGAATGT AATTTATACA TTCAAAACTA GATAGTAAGT AAAAGTGATT	240

	ACATGTCACC ATGCTTCCCA CCTCGAACCT ATTAAACCTC ANCATCTTTG AAGGGGATCT	360
	TATNAACCGA A	37
5	(2) INFORMATION FOR SEQ ID NO: 4119:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4119:	
	GCACTATTAG CCCAGTTAGA GAAAGATTGA CCTAATCTAT CCAACCAATC AGCCGACCAT	60
	TGAAACAGTG GTGCTAATTG CGGTGAATAC ATTGACTAAT CCGTCACCAA AACCACCTGC	120
20	AGCACTTAAT AGCTTGTTAA ATACCGAAAC ACCCGTTGTA TTCATCATAT TAAAGAATCT	180
	TGAAGCTACA CTGCTATTTT CAGCCCATTn AAGCACGCTT TGAGACGCTT CTTCCATTCC	240
	TCTTGAAATA CCACTAAAAA ACGGnTGTAA GCTCTGCATT GCAGTTTTAA CAGTATTTAA	300
25	ACCATTIGCA AGAGTIGIGA AGNIAGCGGA TIGATITIGC I	341
	(2) INFORMATION FOR SEQ ID NO: 4120:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4120:	
	GGTTGAGAAA AGCCAACACA GCTAGGGTAG TATCCCACCA GCGCCTCCAC GTAAGCTAGC	60
40	GCTCACGTTT CAAAGGCTCC TACCTATCCT GTACAAGCTG TGCCGAATTT CAATATCAGG	120
	CTACAGTAAA GCTCCACGGG GTCTTTCCGT CCTGTCGCGG GTAACCTGCA TCTTCACAGG	180
45	TACTATGATT TCACCGAGTC TCTCGTTGAG ACAGTGCCCA AATCGTTACG CCTTTCGTGC	240
45	GGGTCGGAAC TTACCCGACA AGGAATTTCG CTACCTTAGG ACCGTTATAG TTACGGCCGC	300
	CGTTTACTGG GGCTTCGATT CGTAGCTTCG CAGANAAACG CACTTCCTGT TAAACCTTTC	360
50	CAGCACCGGn CAGGCGTTCA CCCTnATTAC ATCAACTTTA	400
	(2) INFORMATION FOR SEQ ID NO: 4121:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

δ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4121:	
	AATAAATCTT GCTTTATTCT TTTTACCAGT AATATCTAAA TGAGTTGGAT ATTTAACTTT	60
10	CGCATTAATT TCAATATTAA ATTGCGTTAC CGCGACAAGC GCAAACACAA CATACATAAT	120
	AAGATTGGCT AAAAAGATAT AGTTAAAGCT AAATTCTGCG ACAAAGCCGC CCATTGCAGC	180
	ACCGACAGCC ACACCAATAT TTTGCGCTAA GTATATCGCA TTAAACGTTT GTCTTCCGCC	240
15	ATTTGGCCAC ACTGCTCCAG CCATAGCGTA TATCGCAGGA ATAATCATTC CGCCACCAAA	300
	CCCTAACATT ACCAGGCCAT ACCAGCATAC CCAGGGCCAC CCGnGGAAGG AAATTAAGTA	360
	GCGGTGGTAC TACCAANGAC CAGTGGAAGG TNCCAATTAA	400
20	(2) INFORMATION FOR SEQ ID NO: 4122:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4122:	
	GATAACTAAT AAAGTTTAGT TAAGTATTTT AATAACAAGT AGTATGTCAT TCTAGTAGCT	60
	AGAACAGATA TACTACTTGT TTGTTTTTGT GGAAAATTGA GTATATTCAA AAGGATAAGn	120
3 5	ACGAGAATTT CGTTATTAAA CTACGAATTC TCGATTTTTT TATATTTTAA GATAGGTTTA	180
	TTTCTGAAAA CITAATAGAA AGGGGTTTGA CAAAGCTAAA GTGAAGTTTG ACGGTATAAA	240
40	CGCAAATTAA ATATACTTTT ATAGAAAATT AACTCAGGCT GGGACATAAA TCAATATTCT	300
	ATGCTCTACG GAGGTATATT GGCAGTAGTT GACTGAACGA AANGCGCTTG TNACCAGCTT	360
	TT	362
45	(2) INFORMATION FOR SEQ ID NO: 4123: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4123:

	CGCGAGGTGG TTTACAAGGA TTGTTGACAT TTCAAGACTT ACCAGTAACA AGTTATACAA	120
	TCTGGGGTGG TGTCTCAGAT ATTGATTTAA TGTATGAAGA ACGTGTCGAT TTAAGAGGCA	180
5	TGCTACGAAG AATGATTGGT CATCCGAAAA AAGATCGAGC GGGCATATGA GGCACGCCAA	240
	GCGATTCCAA ACATTAATGA NAACAGTCCG CCAATATTAA TTGTACATNG GAGGGGAAAG	300
10	ACCCAGCAAG TTGGGTATTN CATCATGCGT ATTATTTTAA GCGGACCAAC TA	352
70	(2) INFORMATION FOR SEQ ID NO: 4124:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4124:	
	AACCAGGTGA TCTACCCTTG GTCAGGTTGA AGTTCAGGTA ACACTGAATG GAGGACCGAA	60
	CCGACTTACG TTGAAAAGTG GAGCGGATGA ACTGAGGGTA GCGGAGGAAA TTCCAATCGA	120
25	ACCTGGAGAT AGCTGGTTCT CTCCGAAATA GCTTTAGGGC TAGCCTCAAG TGGATGATTA	180
	TTGGGAGGTA GAGCACTGTT TGGACGAGGG GCCCCTCTTC GGGTTTACCA ATTTCAGACA	240
30	AACTTCCGAA TGCCAATTAA TTTGAACTTn GGAGTTCAGA ACATGGGTGA TAAGGTCCnT	300
	GTTTCGnaan GGGAAACAGC CCAGACCACC AGTTAAGGTC CCCAAATGTA TGTTTAAGTG	360
	GAAAAGGGTT TTGGCGTTGC CCCGACAACT AGGATGTTGG	400
35	(2) INFORMATION FOR SEQ ID NO: 4125:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4125:	
45	GGCTTATTAA TCAAAAAATT TATAAAGAAT ATGTAGAAAA CTTTTATTTA CATCGAGGCT	60
	ACACGCTACA ACAGAAAATT AAAATTTTAA TTAGCTTATA CATTGTAATA GGTTTTTCAA	120
	TTTATATGGT GGATGTTCTT GCAGTCCGTG TAGGATTAAT CATAATGGTT ATCATACAAA	180
50	CCGCTGTACT CTTTACATTT GTAAAAACAT TACCCAAATC AAATCATAAA ATAGAGGAGT	240
	GATTGCCCAT GTTTATGGCA GAAAATAGAT TACAATTACA AAAAGGCAGT GCGGAAGAAA	300
55		

	TIGTCACTAA AACATTAAAT ACCGGGATAC AGCCGAGTAA	400
_	(2) INFORMATION FOR SEQ ID NO: 4126:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4126:	
15	AATCTATATT TTACTTACTT ATCTAGTTTT CAATGTACAA TTTCTTTTTA GTCAAGCGCT	60
	CGCATAAGCA ATATCACTTT AACCAAAAAA TATTTGAATG TTAAATAAAC ATTCAAAACT	120
	GAATACAATA TGTCACATTA TTCCGCATCT TCTGAAGAAG ATGTTCCGAA TATATCCTTA	180
20	GAAAGGAGGT GATCCAGCCG CACCTTCCGA TACGGCTACC TTGTTACGAC TTCACCCCAA	240
	TCATTTGTCC CACCTTCGAC GGCTAGCTCC TAAAAGGGTT ACTCCACCGG CTTCGGGTGT	300
05	TACAAACTCT CGTGGGTGTG GACGGGGCGG TGTGGTACAA nGACCCGGGG AACGTNATTC	360
25	ANCGGTAGCA TGGCTGGATC TAACGATTTA CTANGCGGAT	400
	(2) "INFORMATION FOR SEQ ID NO: 4127:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4127:	•
	CGAAATTTGT AGTAAAAGAT GTGCAACCAG CGAAACCAAC TGTGACTGAA ACAGCGGCAG	60
40	GAGCGATTAC AATTGCACCT GGAGCAAACC AAACAGTGAA TACACATGCC GGTAACGTAA	120
	CGACATACGC TGATAAATTA GTTATTAAAC GTAATGGTAA CGTTGTGACG ACATTTACAC	180
	GTCGCAATAA TACGAGTCCA TGGGTGAAAG AAGCATCTGC AGCAACTGTA GCAGGTATTG	240
45	CTGGAACTAA TAATGGTATT ACTGTTGCAG CAGGTACTTT CAACCCTGCT GGATACAATT	300
	CCAAGTTGGT TGCAACGCCA AGGAAGCGGA GAGACCAGTG AAGTGATTGA GCCACCGTAA	360
50	TGGTTGGnTT CCCCAGTTTG TCGGCAnCCA CAACCGGAAC	400
	(2) INFORMATION FOR SEQ ID NO: 4128:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4128:	
	GATTAGTGAA AAGTTGGTTG TACTATTACC GTTAAAATTT GGAGATTATC TGTCGTCTTC	60
10	AAGTATGCGT TCATTAATTG ATATTGGCGC ACCGTATAAC CATGTCAAAG TACCATTTGC	120
	AATGCAGTCA TTAGGCGCAT TAAGGCTAAC GCCTACGCGT TACATGAAAA ACGGAGAACA	180
	AGCAGAACAA TTATTACGTC AGCTTATAGA AAAAGATGAA GCACTAGCTA AGTATGTCAT	240
15	GGGTTGTGAT GAAACAGCTT GGTGGTCATA TATGGGTCCA GATAATGATA TTTTCCAAGA	300
	TCCATTANGG CCATCTAACT GTTCCAGCTA AGGAAAGTAT CCCCGAAGTG GCTAAGCCCA	360
	AAAATGATTA CGCCAACCAG CTAGTGGTCC ATMGGCCAGC	400
20	(2) INFORMATION FOR SEQ ID NO: 4129:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4129:	
	AGAGGTCCGT TGCCTTACCG CTTGGCTATA GCCCAATATA TAGATGGnGG AGGGGGGCAG	60
	ATTCGAACTG CCGAACCCGA AGAGCGGATT TACAGTCCGC CGCGTTTACC ACTTCGCTAC	120
35	CCCTCCAGCT TATTCATATA ATTTAATAAT CAAAATGGTG GAGAATGACG GGTTCGAACC	180
	GCCGACCCTC TGCTTGTAAG GCAGATGCTC TCCCAGCTGG AGCTAATTCT CCAAAATAAT	240
	GACTCCTGAC GGGACTCGAA CCCGTGTTAC CGCCGTGAAA GGGCGTGTTC TTGAACCGCT	300
40	TGGACCAAGG GAGCCATGGC TCCAACAGGT GAGGGACTCG AACCTHACGG ACCGATTCGG	360
	TTnAACAGCC GGAT	374
	(2) INFORMATION FOR SEQ ID NO: 4130:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 431 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4130:	

	ATTAAATTTC AGTTGTTGCA ATTTCTTCAT CTGTAGGTAC ATCATCGTTA AGGCCAACAA	120
5	GTGCTTCAGA AACATTTCGT GAATGATAAC CGATACGTTC AAGAACTCBA ATCATATCGA	180
5	TATATAGTAA TCCGCCTTTT GTTGTACATT CACCACGATT AAGGCGTTTA ATATGACCTT	240
	TGCGTAGTTT ATGTTCAATA TTAAATGATT CTCTACTACG TTCTACAATT TCATCTTTTT	300
10	TCGTTTTGTC ATAAACATCT AACATGTCGA TGGCTTTATC AAATGACTCA GCAACATGGT	360
	TGGAATAAnT TATCCATACC GCGTTGTGCA TCTnCTGGTA ATGCGAATAT CTTCATCATG	420
	TTGGCGGTTT T	431
15	(2) INFORMATION FOR SEQ ID NO: 4131:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4131:	
25	TTTAGTTGAA GGCGGTGTTG TCGCATTTGC TGTTTGTTGC GGTGCTTCTA CTTTAGTTGA	60
	GGGCGGTGTT GTCGCGTTTG GTTTTGATTG CGGTGCTTCT ATTTTAGTTG AGGGCGGTGT	.120
30	TGATGTGGTG CTTCCACTTT AGGNAANTGA GTGTTGTCGC GTTTGCTGCT TGCGTTGTCG	180
	TTGTGATTAC ACCTGTTGTT AAAAGGCCTA GTGCTAAACT TGTTTTAGCA ATCGTTGTTA	240
	TTTTCATAGT TGTATGCTCC ATTCGTAATT ATTAGATTTG TTCGATACAT TCATTGAATC	300
35	ATACAGCTTT ATTATAGAGG CGTATTGCTC CATTCACATT AAACCTGTnT AACCAGATTG	360
	GAAGCAGCGT TGAAThAAAT GAAGAAAGCC AGAAGTTCGT	400
40	(2) INFORMATION FOR SEQ ID NO: 4132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4132:	
50	CCATTCACTG TATGTCTTTG GCCACCACCT TGACGTTGTT GTTGCTGTTG TTGATTTTGA	60
00	TTAGCTTGTT GTTGATTTTG ATTATTTTGT GCTTGATTGT TCGCTTGATT AGCGTTGTTT	120
	TGATCATTAT CAGATTCATC TTTAGTCGCT TTGTCTTGAT CCTCTTTTGA TTTATCACTG	180

	TCAGCATTAT TTTTATTTGT ATTCGCGATT TTATTTTCTT TTGTACCATT ATTATGATTG	300
_	TTTAATGCCA TGCCTCCAAA TATCGCTAAA TGCACCGATA AATHAGTACA GCTGCAATGA	360
5	ATGGTAACAA TACTTTGGGC CAGnCACCGT TTTTACGGTn	400
	(2) INFORMATION FOR SEQ ID NO: 4133:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 417 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4133:	
	TTGAATACTT TTCTTCCACA CAAATGTATA TCTATTGGCA TTAGCTTCTA CTTTTGTACC	60
20	ATCAATAAAA ATTGAATTAT TATCAATAAG ATTTTGCTTT AAACATTGAC TATGGAACTG	120
	AATAAATAAA GATTCAATTA ACGCATCAGT ATTAGGATTC ACTCTAAAAC GATTAATAGT	180
	TTTATAGAA GGTGTTTGAT TTTGAGCTAA CCACATCATT CGAATACTGT CATGAAGTAA	240
25	TTTCTCTATT CTTCGACCAG AAAATACAGA TGAGTATAT GCATATAAGA TGATTTTAA	300
	CATCATTTTT GGGATGATAG GATGTTGCGC CACGATGATG'TCTGAATTCA TCGAATTCGC	360
30	TANCGGGTAC CGTTCCACCA ATTCCATTAA CATATCGCGG AATATCATTT TGAGGAA	417
	(2) INFORMATION FOR SEQ ID NO: 4134:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4134:	
	GGTTTAATAT GGACCTTTGC CGTnTTTATG TTCAATATTA AATGGATTCT CTACTACGTT	60
	CTACAATTTC ATCTTTTTC GTTTTGTCAT AAACATCTAA CATGTCGATG GCTTTATCAA	120
45	ATGACTCAGC AACATGGTTG NAATAATTTA TCCATACCGC GTTGTGCATC TTCTGTAATG	180
	CGNAATATCT TCATCATGTT GGTCGTTTTA ATTGAGCGAC ATACTCTTCT GTTAGCTCTG	240
	CTACTTTTAA AATAGAGCGA TTGACATCAA ACATAACTGC TAAACGCTCA ACGTCTGCCT	300
50	TCGTAATGGC TTTTGTAGAA ATTCTAACTA AATAATTTCG AATGCTATCA TTGT	354
	(2) INFORMATION FOR SEQ ID NO: 4135:	

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(A)	LENGTH: 400 base pairs
(B)	TYPE: nucleic acid
(C)	STRANDEDNESS: double
(D)	TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4135:	
10	CTGGGATCGC CACCTTTAAG TCTAACAACC TTGTTATATC GACGCGCTGC TTCCACGATA	60
	CAGTCATTTA TTTTTTCTTG CTGAATATGT TTTGCATACG GCTTTTTACC AACATCGATA	120
	ATTTCAGTAG TCAAATTCGC ATATTGTAAA ATTAACGGAT TCACTAATCG ATCATATAGA	180
15	ATGACATCCG CTTCACGTAT TAAACGCTCA GCCTTTTTCG TCAAATAATT CGGATTACCT	240
	GGACCCGCAC CTATCAAGTA AACCTTGCCA TATTCCTCTA CAGACATATA TATACGGTCC	300
20	CGTCTGTAAC TTCTACCTCA TAAACATCTA CACAACCTTC ATCAGGTCTG GACAATACCT	360
	GNATTARACA ATTTTTGATC GTGGGGGGC ARATACATAT	400
	(2) INFORMATION FOR SEQ ID NO: 4136:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	^{\$} £
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4136:	
	ACCACTGAAT CGTTCATCAT TTTCAAATTT TGAATCTGCT GTCCATTTCG CACTGTATGG	60
35	TGGGTTCGCA ATAACCGCAT CAAATGTATT GCCTAAAAAG GCTGGATTTT CCAATGTGTC	120
	ATCATTACGG ATCTCGAAGT TCTCATAACG CACATCATGT AATAACATAT TCATGCGTGC	180
40	TAAGTTGTAT GTAGTATTGn TACGTTCTTG TCCGAAATAA CGATACACTT GCGTTTCTTT	240
	ACCAACACGT AACAACAATG GAACCGGAnC CACATGTTGG GTCGTACACG TGGACGTAAT	300
	TTATCHTTAC CGTGCTGTGA CAATCTTCGC CAGTATCTTA GATACTTG	348

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(2) INFORMATION FOR SEQ ID NO: 4137: (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4137:

	TGGACAATAC AAAGGGCAGC GAAACCGCGA GTCAAAGCAA ATCCCATAAA GTTGTTCTCA	120
	GTTCGGATTG TAGTCTGCAA CTCGACTACA TGNAAGCTGG NAATCGCTAG TAATCGTAGA	180
5	TCAGCATGCT ACGGTGAAAT ACGTTCCCGG GTCTTGTACA CACCGCCCGT CACACCACGA	240
	GAGTTTGTAA CACCCGAAGC CGGTGGAGTA ACCTTTTAAG GAGCTAGCCG TCGAAAGTGG	300
	GGACAAATGA TTGGGGTGAA TCGTAACAAG GTAAGCCGTG ATCGGNAAGG TGCGGCTGGG	360
10	AT	362
	(2) INFORMATION FOR SEQ ID NO: 4138:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4138:	
0.	ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT CTCTGGATCA	60
25	AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA TCGGCTTCTA	120
	GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAC CATTTTTATA	180
30	AGTCAAACGC TCACATACGG CTTCGTTTTC ATTATTTTAA ATGCTCATTT ACATAAGTAA	240
	ACTCTGCTTT AAAATAATTT AACTGCATTG TCTGCTAAAC GTTTTCTTTT ATAAAAAGAT	300
	TTAAACGCGT TATTAATCTT GTGAGTGTTC TTTCGAACAC CAGCGATTAN TTCnTGAGGA	360
35	ATTCAAGCCT AnTTAAAACC CTTA	384
	(2) INFORMATION FOR SEQ ID NO: 4139:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4139:	
	CTCATTATGG GACGTGCACA AGATGGTTTT CTTGATCAAG ACAAATATGA CATTATTTTC	60
50	AAAACAGCTG AAAATTTAGA CGTACCGATT TATCTACATC CCGCGCCAGT TAACAGTGAC	120
	ATTTATCAAT CATACTATAA AGGAAATTAT CCTGAAGTAA CTGCGGCAAC ATTTGCTTGT	180
	TTTGGTTATG GTTGGCACAT TGATGTCGGC ATTCATACAA TACATCTNGT NTNATCTGGT	240
55		

	TCCTTAGAAC GAATGGATGA AGCTTATCCG TGAACATTTG AACCACCCCG GAAGCAATAC	360
	TTAAAAATAA ATTTAnTATC ACACCGGGTG GCATGGTACC	400
5	(2) INFORMATION FOR SEQ ID NO: 4140:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4140:	,
	CAACCACATT CGCTCGGCTC ACCTTAGAAT TCTCATCTTG AACTACCTGT GTCGGTTTGC	60
	GGTACGGrCA CCTATTTTCT ATCTAGAGGC TTTTCTCGGC AGTGTGAAAT CAACGACTCG	120
20	AAGACTCAAT GTCTTCTCCC CATCACAGCT CAGCCTTAAC GAGTACCGGA TTTGCCTAAT	180
	ACTCAGCCTT ACTGCTTAGA CGTGCAATCC AATCGCACGC TTCGCCTATC CTACTGCGTC	240
25	CCCCCATCGA TTAAAACGAT TATAGGTGGT ACAGGAATAT CAACCTGTTA TCCATCGCCT	300
25	AAGCCTGTCG GGCTCAGCTT AAGGACCCGA CTAACCCCAG AACCGGAAGA GCCTTCCTCT	360
	GGAAAACCTT AGTCAATCCG TTGGACCGGG ATCTCAACCG	400
30	(2) INFORMATION FOR SEQ ID NO: 4141:	x *
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4141:	
40	CATATCGATA ACATGACATA ACTCATGCTG GGTTTCCCCA TTCGGAAATC TCTGGATCAA	60
	AGCTTACTTA CAGCTCCCCA AAGCATATCG TCGTTAGTAA CGTCCTTCAT CGGCTTCTAG	120
45	TGCCAAGGCA TCCACCGTGC GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA	180
	GTCAAACGCT CACATACGGC TTCGTTTTCA TTATTTTAAA TGCTCATTTA CATAAGTAAA	240
	CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTTAT AAAAAGATTT	300
50	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACATAG GCGGAGTATT TCTTAAGGAA	360
	TnCAAGCnTA TTTAAAACTC TTAATCACnC GGTTTTGCnT	400
	(2) INFORMATION FOR SEQ ID NO: 4142:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4142:	
10	GTTGCGCTCT TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATTTTTC	60
	TTTGTGTTTA CTTTTTATTT TGACGTTTTA GACATAAAAA AAGAGACCTC ACGGTCTCAA	120
	CTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTGG CTACCATCGT CGCTAAAGAC	180
15	CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	240
	TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGGTTCGT CAGATTCAAA CGTTTCACTC	300
	GCCAAGCCAT TTTCCTTGGG TTACTTTTAA TTTGACGTTT AAGGCATAAA AAAAAGAGAC	360
20	TTGCGGGCTC AAATGCGGTT CATCGCATCC ATTTTTGnCn	400
	(2) INFORMATION FOR SEQ ID NO: 4143:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 369 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4143:	
	TTTAAAATTG ACATTATTAC TGACCAAACA AGTGCACATG ATCCGCTAAA TGGATATGTG	60
35	CCACAAGGAA GCGAAAGTAT TGCGTGAAAA AGATCCGAAA AAATATGTTG AACTGTCACA	120
	AGCTTCAATG GCAAAGCATG TTGAATTAAT GCTTGGAATT CCAAAAACGT GGCGCTGTAG	180
40	CATTTGATTA TGGTAACAAT ATTCGTCAAG TAGCCTTCAA TAACGGAngn ATAAATGCTT	240
	TTGGACTTCC CAGGTTTTGT ACCAGCTTAC ATTAGACCAT THATTCTGTG TAGGTTAAAG	300
	GGCCATTCCG CTTTGCTGCG TTGGAGTGGT GGATCCAAAA GATATCGAGC GTGCCGGATG	360
45	GAGGAAATG	369
	(2) INFORMATION FOR SEQ ID NO: 4144:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGAAAGATAA ATAGCTTCAT CAATGTCATG CGTCACTAAA ATAATAGTTG ATTGCGTTTT	60
	ATGTTTTAGT TGCACTAGTT GATCCTGAAG TTTATAACGT GTAAATGCAT CTAATGCACC	120
8	TAATGGCTCA TCCATCAATA TAACGTTAGG CTTATGCACA TGCGCTCGAC ATAGTGCCAC	180
	ACGTTGTTTC ATACCCCCGG ACAGTTGCTC GGGAAAATGC TTTCCCCTGT CTTCTAAATC	240
	AACTAATTTA AGCTGTGCnT TAATCTCTTC ATCACTAATT TTCTGTTGTA ATCCAATCCT	300
10	AATGTTGTCA TTAATCGTTT TCCAGGCAGC AAATTATGGT GTTGAAATAG CATAAACAAn	360
	CGGGAGnGGC	370
15	(2) INFORMATION FOR SEQ ID NO: 4145:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4145:	
25	CGAGGTAGCA AAGAACAAAT TGCGAAATAT GTACCTAAAT TACAGTCACA TGAACTGCGT	60
	ACATGCTTTG CTTTAACTGA ACCAGAACAC GGTTCGGACG TTGCnGGAGG TCTTGAAACA	120
30	GTCGCTGAAC GCCAAGGCGA TACTTGGGTT ATCAATGGTG AAAAGAAATG GATTGGTGGT	180
30	GCACATGTAT CTGATGTCAT TCCAGTATTC GCAGTAAATA AAGAAACTGG GCAAACCCCA	240
	TTGCTTTGTA GTCAGACCAG AACAAGATGG GCGTCGATAT TGAAGTCATT GGATAATAAA	300
35	ATCGCACTTC GGCATTGTTC CTAACGCCCT AATTTMAATT AAMTAATGTT CAAAGTAGGA	360
	TTGAAGCGGG	370
	(2) INFORMATION FOR SEQ ID NO: 4146:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4146:	
50	TGGGGTGTTT TTACCAATAA AGCGTTGCAA GGTGGCGGTA GTTTAATCGA TTATGGTTGC	60
	CACTTGTTAG CTACTAGGTA AAGATATGGT GCCGCATGAA GTCTAGGAAA AACATATAAT	120
	CAATTGAGCA AACAACCGAA TCAAATTAAT GATTGGGGAA CATTTGATCA TACTAAATTT	180

	GAATGTTCGT GGTCTGCAAA TATCAAAGAA GATAAGGTTC ACGTTnTTTT ATCAGGAGGA	300
	GGATGGCGGT ATCCAATITA TTTCCATTTG GAAATATATG GNGCCCCGTT TTGGGAACNC	360
5	ATTITTIGGA AAGCCAAGCT	380
	(2) INFORMATION FOR SEQ ID NO: 4147:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4147:	
	TACTTATCTA GTTTTCAATG TACAATTTCT TTTTAGTCAA GCGCTCGCAT AAGCAATATC	60
20	ACTITACCA AAAAATATIT GAATGITAAA TAAACATICA AAACTGAATA CAATATGICA	120
	CATTATTCCG CATCTTCTGA AGAAGATGTT CCGAATATAT CCTTAGAAAG GAGGTGATCC	180
	AGCCGCACCT TCCGATACGG CTACCTTGTT ACGACTTCAC CCCAATCATT TGTCCCACCT	240
25	TCGACGGCTA GCTCCTAAAA GGTTACTCCA CCGANTTCGG GTGTTACAAA CTCTCGTGGT	300
	GTGACGGGCG GTGTGTACAA GACCCGGGAC GTATTCACCT GGCAGCTTGn CTGGGTTTAC	360
30	nT	362
	(2) INFORMATION FOR SEQ ID NO: 4148:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4148:	
	CACCATACAT GCGAAATGGA CAGCAGATTC AAAATTTGAA AATGATGAAC GATTCAGTGG	60
	TTACGGCAAG CTTGCGCCAA AATCCAAAGC AGACTTTGCC TTTATTCAAC ACATGGTACA	120
45	TTACCTAGAC GATGAAGGTA CCATGGCAGT CGTACTCCCA CATGGTGTAT TATTCCGTGG	180
	TGCCGCAGAA GGTGTGATTC GTCGCTATTT AATAGAAGAA AAGAACTACT TAGAAGCCGT	240
50	GATTGGGTTA CAGCCAATAT TTTCTATGGG nCAAGTATTC CAACATGTAT TTAGTATTAA	300
50	AAATGTCGCC ACAAGACGCC ACGTACTATT ATCGATGCAT CCAATGATTT GAAAAGGAAA	360
	AATCAAACCA TTAAGCGTGC CAAGCGACGA TATnGCnCTA	400

	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4149:	
10	CAGCTATTGA TATCGATTAC CATACTGCTG TGGATAGCGA CAGGTTCACG TTGGAGGATA	60
	CACTGAGTCC TCTGAGGAAT CAAATCCAAT TGACTTTGAA GAATCTACAC ATGAAAATTC	120
15	AAAACATCAC GCTGATGTTG TTGAATATGA AGAAGATACA AACCCAGGTG GTGGTCAGGT	180
	TACTACTGAG TCTAACTTAG TTGAATTTGA CGAAGAGTCT ACAAAAGGTA TTGTAACTGG	240
	CGCnTGAGCG ATCATACAAC AGTTGAAGAT ACGAAGAATA TACACTGAAG TAATCTGATT	300
20	GAATAGTGGA TGAATACCTG AAGAGCATGn TCAGCACAAG ACCAGTCGAG GAATNACTAA	360
	AACCATCATC ATATTCnCAT CTGGTTAGGA CTGAAATGGC	400
	(2) INFORMATION FOR SEQ ID NO: 4150:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4150:	
35	AAGGACGACA TTAGACGAAT CATCTGGAAA GATAATCAAA GAAGGTAATA ATCCTGTAGT	60
	CGAAAATGTT GTCTCTTTG AGTGGATCCT GAGTACGACG GAGCACGTGA AATTCCGTCG	120
	GAATCTGGGA GGACCATCTC CTAAGGCTAA ATACTCTCTA GTGACCGATA GTGAACCAGT	180
40	ACCGTGCAGG AGAAGGTGAA AAGCACCCCG GAAGGAGTTG AAATAGAACC TGAAACCGTG	240
′	TGCTTACAAG TAGTCAGAGC CCGTTAATGG GTGATGGCGT GCCTTTTGTA GAATGAACCG	300
	GCGAGTTACG ATTTGATGCA AGTTAAGCAT AAATGTGGAG CCGTAGCAGA ACNNGTTNTG	360
45	AATAGGCGTT A	371
	(2) INFORMATION FOR SEQ ID NO: 4151:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4151:	
	TCAGCTTTTT TGATATGTAT TTTATAATGT ACAGCTCGTT GACMMTAATT TTCCTTATAT	60
5	TAAGTGCCAT CAATACAAAA CCTAGCTCTC GTTTAACTTT ATTTATTCCT CGAACTGACA	、120
	TTCGAGTGAA CCCAAAATAG CCTTCATAAA TCCAAAAGCA GGCTCTACAT CAATTTTCT	180
	TTGACTATAG ATGTTTTTCG TTTCTGGTTC AGAAAGCTTT TGATTAATTT GGACTTTAAA	240
10	GTATTCCCAA TTATAATTCT TCATGGATTT TCTTATTGGG ATTTCGAATT TGGTTTCATG	300
	CATTGATGTC TCAAAGAACA TGATGGAACA GTCCAnCACA TTCCAGATAG TTTGGAAGTC	360
15	TCGTTT	366
	(2) INFORMATION FOR SEQ ID NO: 4152:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4152:	·
	TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTGG CTACCATCGT CGCTAAAGAC	60
30	CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	120
	TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT	180
	TCGCCAAGCC ATTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAAA	240
35	GAGACCTTGC GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGCA ACGTTCTACT	300
	CTAGCGGGAC GTAAGTGGCT ACCATCGACG CTAAGAACCT TTCCTGGACT TGGTGGACAA	360
	TCGCnTGCCT CCTCGGGCTC TCGGCTTACG	400
40	(2) INFORMATION FOR SEQ ID NO: 4153:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4153:	
	TGATATTCCT GTACCACCTA TAATCGTTTT AATCGATGGG GGGACGCATA GGNATAGGCG	60
	ACGTGCGATT GGATTGCACG TCTAAGCAGT AAGGCTGAGT ATTAGGCAAA TCCGGTACTC	120

	CCGAGAAAAG CCTCTAGATA GAAAATAGGT GCCCGTACCG CAAACCGACA CAGGTAGTTC	240
	AAGATGAGAT TCTAAGGTGG AGCGAGCGAA CTCTCGTTTA AGGACTCGGG CAAATGGACC	300
6	CCGTTACTTC GGGGAGANGG GTGCTCTTTA NGGGTTTACG CCCAGAAGAG CCGCATTGAA	360
	TAAGGCCCAA GCGnTGTTTT ATCCAAAACA CGGTCTCTGC	400
	(2) INFORMATION FOR SEQ ID NO: 4154:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4154:	
20	TITTAGCAAT CATITTAACA GTCAGTCATA TTAAAGGCTG GCTAACGATT GTTATCTnGT	60
	nCAGATTTGT AAGTTAAGAT TTCTTGTAAT GTGTATGCAG CACCATATGC TTCAAGTGCC	120
	CATACCTCCA TCTCACCAAA ACGTTGTCCA CCGAATTGCG CTTTACCGCC AAGTGGTTGT	180
25	TGTGTAACAA GTGAATATGG TCCTGTTGAA CGCGCATGTA ATTTATCATC AACCATGTGC	240
	GCAAGTTTCA ACATGTACAT TACACCTACT GAAATACGGT TATCGAATGG TTCACCTGTA	300
30	CGTCCATCAT AAAGTACAGT TTTACCATCA CGAGCCATAC CAGCTTCTTC AATTGTTGGA	360
	CCATACATCG TCATCGTTTG CACCGTCAAA TACTGGTGGA	400
	(2) INFORMATION FOR SEQ ID NO: 4155:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4155:	
45	GATCCGAAGT TACCAACAGG AGAGAAAGAG GAAGTTCCAG GTAAACCAGG AATTAAGAAT	60
	CCAGAAACAG GAGATGTAGT TAGACCACCG GTCGATAGCG TAACAAAATA TGGACCTGTA	120
	AAAGGAGACT CGATTGTAGA AAAAGAAGAA ATTCCATTCG AGAAAGAACG TAAATTTAAT	180
60	CCTGATTTAG CACCAGGGAC AGAAAAAGTA ACAAGAGAAG GACAAAAAGG TGAGAAGACA	240
	ATAACGACGC CAACACTAAA AÁATCCATTA ACTGGAGAAA TTATTAGTAA AGGTGAATCG	300
	AAAGAAGAAA TCACAnAAGT CCAGTTAATG AATTAACAGA TTCGGTGGCG AGAAATACCG	360
55		

(2) INFORMATION FOR SEQ ID NO: 4156:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4156:	
	CAAAGTGACA GGTGGTGCAT GGTTGTCGTC AGCTCGTGTC GTGAGATGTT GGGTTAAGTC	60
15	CCGCAACGAG CGCAACCCTT AAGCTTAGTT GCCATCATTA AGTTGGGCAC TCTAAGTTGA	120
	CTGCCGGTGA CAAACCNGGG GNAAGGTGGG GATGACGTCA AATCATCATG CCCCTTATGA	180
20	TTTGGGCTAC ACACGTGCTA CAATGGACAA TACAAAGGGC AGCGAAACCG CGAGTGCAAG	240
	CAAATCCCAT AAAGTTGTTC TCAGTTCGGA TTGTAGTCTG CAACTCGACT ACATGAAGCT	300
	GGGAATCGCT AGTAATCGTT AGATCCAGCA TGGCTAACGG TGGAnTACGT TTCCCGGGGT	360
25	CCTTGTTACA CACCGCCCGT	380
	(2) INFORMATION FOR SEQ ID NO: 4157:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4157:	
	TGGAGAAGGA CCCAAAAATG TTGCCGTTTC AAGGTTATGT TTTACAACAT TTCGAACTTA	60
	TGGATGATGG ATTCTGCCAA GTTAAAATAA CTGAAGATGT ATTGGAGCAA TTCGGTATTC	120
40	AGCCAAATGA AGCATCTCAG TTTGTTAATA CAATTGCTGA CATCAAAGGC TTGAAAATAT	180
	GGGTATTTGC AGTCGATGGA AGGTAATGAA ATCAGATGTC GATTACGTTC TAAAGGGCAA	240
45	TTGGATTATT AATGATATTG CGCAGATTTT GGTGGCGGTG GTCATCCGAA TGCGTCAGGA	300
	GTTTCAGTGG ACCAGCTGGG GTGGANTTGA GCCACTTGCT ACCAGCTTTA CGGCACCAAA	360
	ACTTNACTTA TAGGAAGGGG CCCATTCCAT CCAGGTGGGC	400
50	(2) INFORMATION FOR SEQ ID NO: 4158:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 4158:	
5	AAATCTCTGG GATCAAATCT TACTTACAGC TCCCCAAAGn CATATCGTCG TTAGTAACGT	6
Ū	CCTTCATCGG CTTCTAGTGC CAAGGCATCC ACCGTGCGCC CTTAATAACT TAATCTATGT	12
	TTCCACCATT TTTATAAGTC AAACGTTAAC ATGAAGTTAC GTTCTTTTAT AAAAAGATTT	18
10	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACACTA GCGATTATTT CTTATGAATT	24
	CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATTTTACTT	30
	ACTTATCTAG TTTTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGn n	35
15	(2) INFORMATION FOR SEQ ID NO: 4159:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4159:	
	AGTTAAAGGA ACTTTTAAAG TGGTTGGCCG CCGTNATTGC CTTCCTNACC TTTTTGTCCT	60
	TCTCTTGLTA CTTTTCTGT CCCTGGTGCT AAATCmGGAT TAAATTTACG TTCTTTCTTG	120
30	AATGGAATYT CTTCTTTTC TACAATCGAG TCTCCTTTTA CAGGTCCATA TTTTGTTACG	180
	CTATCGACCG GTGGTCTAAC TACGTCTCCT GTTTCTGGAT TCTTAATTCC TGGTTTACCT	240
	GGAACTTCYT CTTTCTCCC TGTTGGTAAC TTCGGATCAA ATTCGTCTCG ATGACCTGGT	300
35	GTTATCGTTT CTGGTCCGTA TTCTGTTAAT TCATTAATCG GATCTTTTGT GATTTCTTCT	360
	TTTGGTTCAC CNTTNACGAA TAATNACTCC AGTAAAGGAT TTTTTAAGTG TTGGTGTCGT	420
40	(2) INFORMATION FOR SEQ ID NO: 4160:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4160:	
50	ACGATAATGG TGACGGGTTA CAAAGCCAAC ACAGCTAGGG TAGTATCCCA CCAGCGTCCT	60
	CONCERNATE TRECOCREGE GETTERNAGE CECCTROCTA TECTETROS CONCERNACES	120

	TGCATCTTCA CAGGTACTAT GATTTCACCG AGTCTCTCGT TGAGACAGTG CCCAANTCGT	240
	TACGCCTTTC GTGCGGGTCG GAACTTACCC GACAAGGANT TTCGCTACCT TAGGACCGTT	300
5	ATAGTTACGG CCGCCGTTTA CTGGGGCTTC GATTCGTAGC TTCGCAGAAn TAACCACTC	359
	(2) INFORMATION FOR SEQ ID NO: 4161:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4161:	
	ATTGACTAAG GTTTCCAGAG GAAGGCTCGT CCGCTCTGGG TTAGTCGGGT CCTAAGCTGA	60
20	GGCCGGnAAC GGTAGGGCGA TGGATAACAG GTTGATATTC CTGTACCACC TATAATCGTT	120
	TTAATCGATG GGGGGACGCA TAGGGATAGG CGAACGTGTC GATTGGATTG	180
	CAGTAAGGCT GAGTATTAGG CAAATCCGGT ACTCGTTAAG GCTGGAGCTG TGATGGGGAG	240
25	AAGACATTGT GTCTTCGAGT CGTTGATTTC ACACTGCCGA GAAAAGCCTC TAGATAGAAA	300
	ATAGGTGCCC GTGACCGCAA ACCGACACAG GTAGTHCAAG ATGAGAAHTC T	351
30	(2) INFORMATION FOR SEQ ID NO: 4162: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4162:	
40	ADCGTCCTGC TTTGCACGCC AGAGGTCAGC GGTTCGATCC CGCTAGTCTC CACCATTTAT	60
	TTTTTACACG ATGAACATTG AAAACTGAAT GACAATATGT CAACGTTAAT TCCAAAAAAC	120
	GTAACTATAA GTTACAAACA TTATTTAGTA TTTATGAGCT AATCAAACAT CATAATTTTT	180
45	ATGGAGAGTT TGATCCTGGC TCAGGATGAA CGCTGGCGGC GTGCCTAATA CATGCAAGTC	240
	GAGCGAACGG ACGAGAAGCT TGCTTCTCTG ATGTTAGCGG CGGACGGGTG AGTAACACGT	300
- 50	GGATAACCTA CCTATAAGAC TGGGGATAAC TTCGGGGGAAC CGGAGCCAAT ACCGGATAAT	360
••	Antitgaacc gcatnggtcc anaagtgaaa gaccggcttg	400
	(2) INFORMATION FOR SEQ ID NO: 4163:	

(A) LENGTH: 342 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4163:	
10	ATTTTATATA TGAAATAATC TGGGACAACA TTCATAAATC TTATTGTCGT CCATTTTTT	60
	AAAATAATAC CAATCTCATT TTTAAATTCT AAACTTGGTT TCGTATAATA CGCTCTTAAA	120
	TCTTTAAATT TAGGATTTAT TTCTGTTGGT ACTTGTTTTG TGGTTGGCGA TTGTGGTGTG	180
15	TCTGATTTAG TAGATTGCAT TGGTTGTGGC GTGTTTGTTG ATGGAGGTGT TGTCACTTTA	240
	GTTGnAAGGC GGTGTTGTCG CATTTGCTGT TTGTTGCGGT GCTTCTACTT TnATTGCAGG	300
20	CGGTGTTGTC GCGTTTGGTT TTGnATGCGG TGCTTCTATT TT	342
	(2) INFORMATION FOR SEQ ID NO: 4164:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4164:	
	TCACGACACG AGCTGACGAC AACCATGCAC CACCTGTCAC TTTGTCCCCC GAGGAAGGGC	60
35	TCTATCTCTA GAGTTGTCAA AGGATGTCAA GATTTGGTAA GGTTCTTCGC GTTGCTTCGA	120
	ATTANACCAC ATGCTCCACC GCTTGTGCGG TTCCCCGTCA ATTCCTTTGA GTTTCAACCT	180
	TGCGGTCGTA CTCCCCAGGC GGAGTGCTTA ATGCGTTAnT GCCAGCACTA AAGGGGCGGA	240
40	AACCCCCTAA ACACTTAGCA CTCCATCGTT TACGGCGTGG AACTACCAGG GTATCTAATC	300
	CTGTTTGATC CCCACGCTTT CGCACATCAG GTCATTAACA GACCAGAAAT CGCTTGGCCA	360
	nGGGGGTnCC nCCAAAACTT TGGGGATTTA ACGGTAAAAA	400
45	(2) INFORMATION FOR SEQ ID NO: 4165:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4165:

	GCATTAATIT CATGTGTACC TTCGTACGTG TAAATCGCTT CTGCATCAGA GAAGAAACGT	120
_	GCAATATCAT AATCGTCAGC TAGTATGCCA TTACCACCTG TAATACCGCG GCCCATAGCT	180
6	ACTGTCTCAC GCAAACGTAA GGCATTCATC ATCTTCGCCG TTGAAGTTGC AACCTCGTCA	240
	TATTCACCAT GTGCTTGCAT ATTAGCTAAT TGAGCACATG TTGCCATTGC TTGAGCTAAA	300
10	TTANCTTGCA TCATTGCTAG CTTTCCTGTA TTAACGGATA TTACTAATuG GTTGCCGAAT	360
	GCTTACGCTC AGGGACNTAA CNAAGTGGCA CGTAAGCGGC	400
	(2) INFORMATION FOR SEQ ID NO: 4166:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4166:	
25	AAAGTTCTTT GGAAATAGTA ACGTTGAAGT TGTACTCACT GGTGATACAT TTGATCACTG	60
•	TTTAGCTGAA GCTTTAACTT ATACAAGTGA ACATCAAATG AACTTTATAG ATCCATTCAA	120
	"TARTGTTCAT ACARTTTCTG GACAAGGTAC GCTTGCTAAA GAAATGCTAG AACAAGCAAA	180
30	GTCTGACAAT GTTAACTTTG ATTATCTATT TGCCGCAATT GGTGGTGGCG GTTTAATTTC	240
	AGGTATTAGT ACTTACTTTA AAACCTATTC ACCTACCACG GAAAATTATA GGTGTTGGAA	300
•	CCTTCAGGTG GCAAGTAGTA TGGTATGGAA TCNGGTGGTG GGTAAATAAT CCNGGTNGTC	360
35	CACATTGGCC CTAATAACCG ATAAAATTTG GGGGGCCGGG	400
40	(2) INFORMATION FOR SEQ ID NO: 4167: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4167:	
	CTTATAATCC ACACCCTGAG CAAACGCTnC TTATGACAGA GTATTAAAAT AAGCCGATAA	60
50	AGATACACAC CTTTACCGAC TATTTAAAAT ACACTTCACC AATTCATTTT AATTTAATGG	120
	ATTGAAGTAA CTAAATTAAT ATTATGTTGT TCAATTAAAA GCTTCATACA AACCTAATCT	180
	ATTTGCACTC CACCGGTAAC ACCGAACACT TGTCCGGTTG TATAACTTGA TTCTTCTGGA	240
55		

GTTTTTTGTA CCAAATGnTT GGGGATTTTA CTTnGTGGGT TGTCCACCAG AAATTTGT 358

	(2) INFORMATION FOR SEQ ID NO: 4168:	
5	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
,,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4168:	
15	TTTCTTGACC ATATGGACGT AAAGAGATGT TAGCATCACA ACGTAAAGAT CCCTCTTCCA	60
	TCTTAACGTC TGATACACCA GTGTATTGAA TAATTGAACG CAATTTTTCT AAATATGCAT	120
	ATGCTTCTTT AGGTGAACGA ATATCTGGTT CAGATACGAT TTCAATTAGC GGTGTACCTT	180
20	GACGGTTCAA GTCAACTAAT GAATACTCAC CTTTATGTGT TGACTTACCA GCATCTTCTT	240
	CCATGTGGAA GACGAGTAAT ACCGATTCGT TTTGTTTCAC CGTCGACTTC GATATCGATA	300
	TATCCATTTT CACCAATTGG TTGATCAAAT TGAGAAnTTG AGAGCTTnTG GnTTAGCTGG	360
25	ATAGAAATAG TTCTTACGGT CAACTTAGAT CCGTTGCGAT	400
•	(2) INFORMATION FOR SEQ ID NO: 4169:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4169:	
	ACCATGTTTG AATGAATCCA TTGGAATCAT TATTGAAGTA AATTAAGGAA TCTATAATGT	60
40	TCGTTAAATA AAACTGATCC CGTTGTGCTT CACACCCGAT AGATAGGGAT TTACAGATAA	120
	ATTCAGGTCT CTTCCACGTC ATATTTGGAC CCATCGAAAA TTCGGGTTCT CAAATCATCG	180
	AACATAACAA AAGAAGCTAA GCAACATGTA GGCCGTTGTC ACTTAACTTC TTGTTTTTCC	240
45	GATGACAGCT TCTATTTAGA GAATGTCATG ATTATTTTAT ATTCACTTCA ATGTTATCAA	300
	TATTAGTGCC ATCTATGACA TCTGCCATGC GATTTTCTTG TAATTTTTTG TGCAATCAAC	360
<i>50</i>	GTGTACnTCC ACGGTTTTCA TTTAAnAACA ATTTACCGGA	400
	(2) INFORMATION FOR SEQ ID NO: 4170:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 395 base pairs	
55	(A) DENGIN. 373 DAGE PAILS	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4170:	
	TACCGAATCG AAGCCCCAGT AAACGGCGGC CGTAACTATA ACGGTCCTAA GGTAGCGAAA	60
10	TTCCTTGTCG GGTAAGTTCC GACCCGCACG AAAGGCGTAA CGATTTGGGC ACTGTCTCAA	120
	CGAGAGACTC GGTGAAATCA TAGTACCTGT GAAGATGCAG GTTACCCGCG ACAGGACGGA	180
	AAGACCCCGT GGAGCTTTAC TGTAGCCTGA TATTGAAATT CGGCACAGCT TGTTACAGGA	240
15	TAGGTAAGGA GCCTTTGGAA ACGTGAGCGC TANTTTACGT GGNAGGCGCT GGGTGGGGAT	300
	ACTTACCCTA AGCTGTGTTG GCTTTCTAAC CCGCACCAnT TATCGTGGTG GGGAGACCAT	360
	GGTCAAGCGG GGCATTTTGA ATGGGGGGGCG GTTCG	395
20	(2) INFORMATION FOR SEQ ID NO: 4171:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4171:	
	TACATTATAG CTTTAATCGT TTGAAGTATA GTTTGAAACC AGTAGTCACA GCTGTTCAAG	60
	GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG TACTTTACTC ACCTATTGTT GTCGCTGCAA	120
35	GTGAAACATA TATCGGTCTT GTTGAAGCAG GTGTTGGCTT ATTACCGAGT GGCGGTGGCC	180
	TTGCAGAAAT GGCTGATCGC ATATTACGCA CATCGCATAA GTTTGATGAC AAACAAGCTT	240
	CCATGACAAA AGTACTGACG AATATCGCAT TGCGAANGCT CTACAAATGC CTTTGAGGCA	300
40	CGTCGTATGG GTATTTACCG TGGATACAGA TACGATNATT TCCAATACAG CACAACGNGT	360
	CGAAGTGGCG C	371
45	(2) INFORMATION FOR SEQ ID NO: 4172:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4172:	

	GCTGAGCTAA GCCCCCATAA TAATTACAGT ATATCGGGAA GACAGGATTC GAACCTGCGA	120
	CCCCTTGGTC CCAAACCAAG TGCTCTACCA AGCTGAGCTA CTTCCCGTAT AATTAACGCG	180
5	CCCGATAGGA GTCGAACCCA TAACCTCTTG ATCCGTAGTC AAACGCTCTA TCCAATTGAG	240
	CTACGGGCGC ATATGTTTTT ATTGAAAATn GTGCCGAGGA CCnGAATGAA CCGGTACGTG	300
	ATCATTACCG CAGATTTTAA GTCCTGTGCG TCTGCCAGTT CCGCAnCCCG GACTATAAAA	360
10	T	361
	(2) INFORMATION FOR SEQ ID NO: 4173:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4173:	
	GTACAGATGC ATTGTTAAAC AATCAGTTGC AACAGCTGTT GAAACTGGTA GAGTATCTAA	60
25	TGGTGATTTA ATCATTATTA CTGCTGGTGT ACCAACTGGT GAAACTGGAA CTACTAATAT	120
	GATGAAAATC CACCTAGTTG GTGACGAAAT TGCTAATGGT CAAGGTATTG GACGTGGATC	180
20	AGTTGTTGGT ACTACGTTAG TTGCTGAAAC TGTTAAAGAT TTAGAAGGTA AAGATTTATC	240
30	TGACAAAGTT ATCGTTACTA ACTCCATCGA TGAAACGTTT GTACCTTATG TAGAAAAAGC	300
	TTTAGGCTTA ATTACAGAAG AAATGGTATT nCACACCCAG TGCCATGGTT GGTTAGGAAA	360
35	AGNAATCCCA CCGTTGTANG	380
	(2) INFORMATION FOR SEQ ID NO: 4174:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4174:	
	CGATTGGATT GCACGTCTAA GCAGTAAGGC TGAGTATTAG GCAAATCCGG TACTCGTTAG	60
	CTGAGCTGTG ATGGGGAGAA GACATTGAGT CTTCGAAGTC GTTGATTTCA CACTGCCGAG	120
<i>50</i>	AAAAGCCTCT AGATAGAAAA TAGGTGCCCG TACCGCAAAC CGACACAGGT AGTCAAGATG	180
	AGAATTCTAA GGTGGAGCGA GCGAACTCTC GTTTAAGGAA CTCGGGCAAA ATGGACCCCG	240

	GCCCAAGCGC TGTTTATCCA AAACACAGTC TCTGCTMAAC CGTAGGGGAT TGTATAGGGG	360
	CTTACGCCTG CCCGGTGCCT GGAAGGTTTA AAAGGGTGGT	400
5	(2) INFORMATION FOR SEQ ID NO: 4175:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4175:	
,,,	AGCCATGGCT CAGCGAGGTA GGACTCGAAC CTACGACCGA TCGGTTAACA GCCGATAGCT	60
	CTACCACTGA GCTACTGTGG ATTAATATTA TGCCTGGCAA CGTTCTACTC TAGCGGAACG	120
20	TAATTCGNAC TACCATCGAC GCTAAGGAGC TTAACTTCTG TGTTCGGCAT GGGAACAGGT	180
	GTGACCTCCT TGCTATAGTC ACCAGACATA TGANTGTAAT TTATACATTC AAAACTAGAT	240
	AGTAAGTAAA AGTGATTTTG CTTCGCAAAA CATTTATTTT GGATTAAGTC TTCGATCGAT	300
25	TAGTATTCGT CAGCTCCACA TGTGCACCAT GCTTnCCACC TCGAACCT	348
	(2) INFORMATION FOR SEQ ID NO: 4176:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4176:	
	CATTITITA AAATAATACC AATCTCATTT TTAAATTCTA AACTTGGTTT CGTATAATAC	60
40	GCTCTTAAAT CTTTAAATTT AGGATTTATT TCTGTTGGTA CTTGTTTTGT GGTTGGCGAT	120
	TGTGGTGTGT CTGATTTAGT AGATTGCATT GGTTGTGGCG TGTTTGTTGA TGGAGGTGTT	180
	GTCACTTTAG TTGAAGGCGG TGTTGTCGCA TTTGCTGTTT GTTGCGGTGC TTCTACTTTA	240
45	GTTGAGGGCG GTGTTGTCGC GTTTGGTTTT GATTGCGGTG CTTCTATTTT AGTTGAGGGC	300
	GGTGTTGANT GTGGTGCTTC CACTTTAGGG NAAGATNAGT GGTG	344
	(2) INFORMATION FOR SEQ ID NO: 4177:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 362 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4177:	
5	CAGAACCTTG NAATGAATCG CGATGGAATA TCTCTATCTG NAAACAGATT TCTTTTTGTC	6
·	CGCCAATGGC CTTGGAATTG TTTAAATAAA TCTATTTGCG CTTCTTTATC AATGTCATAA	12
	CCTAATGCTT TTAACTTCTC TGAGAAGCGT GTTTACCAGA TAATTTTCCT AATGGAAGTT	18
10	CAGTCGTGCT TACACCAACA AGTTGAGGTG TCATAATTTC ATATGTTTCA CGATGTTTTA	24
	ATACGCCATC TTGGTGAATA CCTGATTCAT GACTAAATGC ATTTGGCCAA CAATTGCTTT	30
	ATTTCTAGGC ACTCGAATAC CTGCATATCT TGANATTAAA TCCGAGGTTT TAGTTCCTCG	36
15	AG	36
	(2) INFORMATION FOR SEQ ID NO: 4178:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4178:	
	GGAGCTAATA CCGGATAATA TTTTGAACCG CATGGTAAAG nTGGAAAGAC GGTCTTGCTG	60
30	TCACTTATAG ATGGATCCGC GCTGCATTAG CTAGTTGGTA AGGTAACGGC TTACCAAGGC	120
	AACGATGCAT AGCCGACCTG AGAGGGTGAT CGGCCACACT GGAACTGAGA CACGGTCCAG	180
	ACTCCTACGG GAGGCAGCAG TAGGGAATCT TCCGCAATGG GCGAAACTTn ACGGAGCAAC	240
35	GCCGCGTGAG TGATGAAGGT CTTCGGATCG TAAAACTCTG TTATTAGGGG AGGACATATG	300
	TGTAAGTAAC TGTGCACATT TTTGACGGTA CCTnATCAGG AAGCCACGGT TTACTAGGGG	360
	CCCAGAAGCC CCGGTTAATA CGTGGGTGGG NAAGGGTTTT	400
40	(2) INFORMATION FOR SEQ ID NO: 4179:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4179:	
	GTTGTTTCAG CAGCGACACA GTGTATTCCA TTCTTAGAAA ATGATGACTC AAACCGTGCA	60

	GIIGGIACAG GIAIGGAACA CGIIGCAGCA CGIGAIICIG GIGCGGCIAI INCAGCIANG	100
	CACAGAGGTC GTGTTGAACA TGTTGAATCT AATGAAATTC TTGTTCGTCG TCTAGTTGGA	240
5	AGAGAACGGC GGTTGAACAT GAAAGGTGGA TTAAGATCGC TATCCATTAG CTAAATTTAA	300
	ACGITCAAAC TCAGGTACAT GTTACAACCA ACGITCAATC GTTGCCAGIT GGGAGATGIT	360
10	GTTGGnnnTA C	371
	(2) INFORMATION FOR SEQ ID NO: 4180:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4180:	
	AAAGGGAATC GAATTTTCTT TCTCTTCCTC CGGGTACTAA GATGTTTCAG TTCTCCGGGT	60
	GTGCCTTCTG ATATGCTATG TATTCACATA TCGATAACAT GACATAACTC ATGCTGGGTT	120
25	TCCCCATTCG GAAATCTCTG GATCAAAGCT TACTTACAAC TCCCCAAAGC ATATCGTCGT	180
	TAGTAACGTC CTTCATCGGC TTCTAATGCC AANGCATCCA CCGTGCGCCC TTAATAACTT	240
30	AATCTATGTT TCCACCATTT TTATAAGTCA AACGCTCACA TACGGCTTCG TTTTCATTAT	300
	nTnAAATGCT CATTTACATA AGTAAACTCT GCTTTAAAAT AATT	344
	(2) INFORMATION FOR SEQ ID NO: 4181:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 343 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4181:	
45	CCGTGATCGG AAGGTGCGGC TGGATCACCT CCTTTCTAAG GATATATTCG GAACATCTTC	60
	TTCAGAAGAT CGGGAATAAC GTGACATATT GTATTCAGTT TTGAATGTTT GTTCATTCAA	120
50	ATTAATGGGC CTATAGCTCA GCTGGTTAGA GCGCACGCCT GATAAGCGTG AGGTCGGTGG	180
50	TTCGAGTCCA CTTAGGCCCA CCATTAATTT AATACCTATT TGGGGGCTTA GCTCAGCnGG	240
	GAGAGCGCCT GCTTTGCACG ChGAGGTCAG CGGTTCGATC CCGCTAGTCT CCACCATTAT	300
<i>55</i>	TTGTACATTG AAAACTAGAT AAGTGANGTA AAAATATAGA TTT	343

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4182:	
70	CAGAGCCAAC TCGTATGTGA TTTGTCTGCG CCAATGTATG CATCATCAAA AGTTCTGGAC	60
	TACTACACGC AAACGCTGGT ACATTATGAT GTTCCGTAAA CCAAATTCGC TTAAAGCCAA	120
15	GTCGATCTGC TAATTTTGCA AGTGTCACTG AATCTTGCAA TGCCTTTTGT GCATCCTTAC	180
	CTTCATCTAT TAAGGCATAG TCTAATACGC TTAATTTAAC CAATCCGTCA TCTCCAAACT	240
	TATCCTGTCA TGTCAAACCG ACATAACATT TTAGCGTCTT AATACCATTC CCTCTTCATA	300
20	TACCCACGTA TATGATAACG TTTTCAATAA CTTTATATCT TTCGCCTTAT TTnCTTTTCA	360
	TATCATATTT CAGACTACAA ATGCATCATA GTTAATTAAA	400
25	(2) INFORMATION FOR SEQ ID NO: 4183:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4183:	
35	AAAGTATGAA AGATGGTAGT GACGCGGTTG GTGATTGGGC TGTATTGAAT GCACTCATTA	60
	ACACAGCTGC AGGTGGTTCA TGGATTTCAT TCCATCACGG TGGCGGTGTT GGCATGGGAT	120
	ATTCACTTCA TGCGGGTATG GTTGTTGTAG CAGATGGATC AGAGCGTGCT GAAGGAAGAT	180
40	TGGAACGTGT ATTGACGACT GACCCAGGTA TGGTGTTGCC CGACATGTTG NATGCTGGCT	240
	ATGACATCGC TATTCAAACA GCTAAAGAAA AAGGTATTCA NATTCCAATG ATTGGTGAAA	300
45	GCAGGTGATA AGTAATGAAT GATTTAATAT TAATCANATA GCAGANTATT TTTACCGGGT	360
	CCAACAGATA AACCTTTGAA GGGTTAGGTA TTAGATGCAT	400
	(2) INFORMATION FOR SEQ ID NO: 4184:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4184:	
	TTCCCTGTGC ATCGGCATCA CTATTATTAG CATGACTCAA TTATTGGCAT CACAATATGT	60
5	CATTGCAGTT ATCATTGGTT TCGTCATATG TGCGATAGGT AATGGTTTAG TCGCAACACC	120
	TGGACTTACG ATTGCAATTT TCAGTATGCC TAATGANAAA GTTGGTTTAG CTACAGGATT	180
	ATATAAAATG AGTGGTACAT TAGGTGGCTC CTTTGGTATA GCACTAAGTA CTACAGTTTT	240
10	CAGTATGTTA CAACTAAACT ATGCACCAAG TGTAGCTGCA ACCGTAACAT TTATAGTCAG	300
	CATTGTATTG ATGNTCCTTG GGTNCATTGT CTGCATACAT GA	342
15	(2) INFORMATION FOR SEQ ID NO: 4185:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4185:	
25	AAGCATACTC TGAAGCGGTG AACAAAAATA GAACAGATCA CATTAGACAT TTACTTGAAT	60
	TTAAAGCATG TACACCGATT GACATCGACC AAGTTGAACC GGTAAGTGAC ATTGTCAAAC	120
30	GCTTTAATAC AGGGGCGATG AGTTATGGAT CGATTTCAGC GGAACACATG AAACGTTAGC	180
	ACAAGCCATG AACCAATTAG GTGGAAAGAG TAATAGTGGT GAAGGTGGCG ANATGCAAAA	240
	CGTTATGAAG TACAAGTTGA TGGAAGCAAC AAAGTAAGTG CGATTHAACA AGTTGCTTCT	300
35	GGGCGTTTTG GTGTACTAGT GATTATTTAC CACCTGCCAA GGAATTCCAA TTANACTTGC	360
	(2) INFORMATION FOR SEQ ID NO: 4186:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4186:	
	CCCAAGCGGA ATTCTAAAAT GATCGTCGCT CCATTCTTCA TTTTAATAAA TCCAAACGCA	60
50	GAATCTTCAA CTGTAAATTC ATCTGGATTC CATGAACCCC AAGCGTTTGC CGCATGATGC	120
	TGTTTATTTA ATTTATGGAA TGTTGAACCC ATCACTGATT CTGGTTCATA ATTATCCATC	180
	ATCCATAACG TTAAATCTAA AGCGTGTGTA CCGATATCGA TTAATGGTCC TCCACCTTGG	240

	NCTTTCCGAA GTTAAATGTC TCCTAAGTCG CCACGTTGGC GCTGCCTGGA TGGAAAATTG	360
	GACGATCTGC TCGGGAAACG AATTTGGATA AAChGATGGG	400
5	(2) INFORMATION FOR SEQ ID NO: 4187:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4187:	
	GAATCATCTG GCAACCHCCC CCAAAGAAGG TAATAATCCT GTAGTCGAAA ATGTTGTCTC	60
	TCTTGAGTGG ATCCTGAGTA CGACGGAGCA CGTGAAATTC CGTCGGAATC TGGGAGGACC	120
20	ATCTCCTAAG GCTAAATACT CTCTAGTGAC CGATAGTGAA CCAGTACCGT GAGGGAAAGG	180
	TGAAAAGCAC CCCGGAAGGG ATGTGAAATA GAACCTGAAA CCGTGTGCTT ACAAGTAGTC	240
	AGAGCCCGTT AATGGGTGAT GGCGTGCCTT TTGTAGAATG AACCGGCGAG TTACGATTTG	300
25	ATGCAANGTT AAGCAGTACA TGTGGAGCCG TAGCGAAAGC GANGTCTGA	349
	(2) INFORMATION FOR SEQ ID NO: 4188:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 336 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4188:	
	TGGATCCTGA GTACGACGGA GCACGTGAAA TTCCGTCGGA ATCTGGGAGG ACCATCTCCT	60
40	AAGGCTAAAT ACTCTCTAGT GACCGATAGT GAACCAGTAC CGTGAGGGAA AGGTGAAAAG	120
	CACCCCGGAA GGGGAGTGAN ATAGAACCTG AAACCGTGTG CTTACAAGTA GTCAGAGCCC	180
45	GTTAATGGGT GATGGCGTGC CTTTTGTAGA ATGAACCGGC GAGTTACGAT TTGATGCAAG	240
	GTTAAGCAGT AAATGTGGAN CCGTAGCGAA ACGAGTCTGA ATAGGGCGTT TAGTATTTGG	300
	TCGTAGACCC GAAACCAGGT GATCTACCCT nGGTCA	336
50	(2) INFORMATION FOR SEQ ID NO: 4189:	•
55	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 358 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4189:	
6	CAAAGGATGT TAAGAAATAC AATTTATTAC CCAGCATTTA ATAATGGTGC TATAGAAGGA	60
•	ATTAATAATA AGATAAAATT AATCAAGTGA ATTTCTTTTG GTTACAGAAA TTTCAACAAC	120
	TTTAAAGCAC GTATAATGAT GATTTTCAGC TTGTACAAAG GAGAAAAAA GAAGACAACC	180
10	AAGCCCAATA ATGGACTGGC CGCCTAATAA TAAAAGCTCT AAAAGTTGTA TTTTAAAAAT	240
	AGTTCTTTAA ATTATACC CACCACATTT GGTGGAGGAC CTAAAAAAAA GCACTTCCCC	300
	AAAAATGGGA AAGTGCAAGT AGTGAGCCTT AGGAGGGTTC GGACCCTCTT nCCCCTCT	358
15	(2) INFORMATION FOR SEQ ID NO: 4190:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4190:	
	TCACCAAGTT GAGCAAAGAA GATGTTCTGC GTACCTTGAA CTAAGTGCCC TTTGACTTCT	60
	AANGTACCAC CAAGTGCCGT CTGCCAAAAC GGTAAGTAAA AAATATGGTG TAAACCGAGT	120
30	GGACCTAACA ATCTTAAGAT GAAGCCATAA ACAAAAGTAC CGATGGCACC TGTTTTCGTT	180
	ACAAATCCAC CAACATGATA AATGCCGGCT TGTATGCTTG GCCAAATGAA AAACATCAAT	240
35	ACACCTAAAA AGATTGCGGC AAATGCTGTG ACAATAGGGA CANATGTAGA GCCACCAAAG	300
	AAACCTAAAT ACGGTGGTAA TACCATTTGT GNTATTTGTT GTGAAGTATT GCGGTCATAA	360
	TA ·	362
40	(2) INFORMATION FOR SEQ ID NO: 4191:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4191:	
50	TGATCACCCA TGTTCTGGAC TCCCAATTGA AATTGAATTG	60
	NATTCGGTAA CCCGNGCAGG GTCCCCTCGT GCCAAACAGT GCTCTACCTC CAATAATCAT	120

	NATITCICCG CTAACCICAG TICATCCGCI CACTITICAA CGTAAGICGG TICGGICCTC	240
	CATTCAGTGT TACCTGAACT TCAACCTGAC CAAGGTAGAT CACCTGGTTT CGGGTCTACG	300
5	ACCAAATACT AAACGCCCTA TTCAGACTCG CTTTCGCTAA GGCTCCACAT TTACTGCTTA	360
	AC	362
40	(2) INFORMATION FOR SEQ ID NO: 4192:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4192:	
20	CGTGTATTAT GCCTTCTACA TTGGCCATTA TGAAAACTTA TTATCAGGGT GCTGAACGTC	60
	AGCGTGCCTT AAGTTATTGG TCTATCGGTT CTTGGGGTGG CAGTGGTATC TGTTCACTCT	120
	TCGGTGGTGC AGTTGCGACA ACTATGGGTT GGAGATGGAT TTTCATCTTC TCAATTATCG	180
25	TTGCCGTACT TTCAATGTTA CTCATCAAAG GGACGCCTGA AACGAAATCA GAAATTACCA	240
	ATACACATAA ATTTGACGTT GCAGGGCTAA TTGTTCTAGT AGTATGTTGC TAAGTTAAAC	300
30	GTTGTCATTA CTAAAGGTGC AGCACTTGGn TACACATCAT TATGGGTCTT GGGTTGAATG	360
	CCAATCGGAA ATTGTAGCAT CNTTAATTTC CTAAAAGGTG	400
	(2) INFORMATION FOR SEQ ID NO: 4193:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4193:	
45	AATCCCATGG ACCCTCAAAT TCTTTATCTA AATAGTACCC TAATGAAGTT TTTCTGTGCA	60
	TGTGATTAAT TTCATGTAAA CCGATGACAC CAACTAGCGT TCCTTCATAC CAAATGCCAC	120
	ACTGAAATCC ATTACCATCA GCAAATTGCA AAAGTCCTCT TTTAATAAAT GCACGCGTAT	180
<i>50</i>	CTGATGGTTG CTCAGTTGCA TCTACCCAAG GTAACCATTC CCTAAGTGAA TTTCTTGAAC	240
	GATTGACTAA ATTGAAAAGC GCTTCTGTGT CATGAGCTTC TAAAATTTTA ATGTTATTGT	300
	TCAATCACTT TCATTCCAAA CATACHATCA CATCCTCATT CATTHTCATA TAATCCGGNA	360
55		

(2) INFORMATION FOR SEQ ID NO: 4194:

55

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4194:	
	ACAAAGGACG ACATTAGACG AATCATCTGG AAAGAGAATC AAAGGTAATA ATCCTGTAGT	60
15	CGAAAATGTT GTCTCGAGTG GATCCTGAGT ACGACGGAGC ACGTGAAATT CCGTCGGAAT	120
	CTMGGAGGAC CATCTCCTAA GGCTAAATAC TCTCTAGTGA CCGATAGTGA ACCAGTACCG	180
	TGAGGAAAGG TGAAAAGCAC CCCGGAAGGG AGGTGTAAAT AGAACCTGAA ACCGTGTGCT	240
20	TACAAGTAGT CAGAGCCCGT TAATGGGTGA TGGCGTGCCT TTTGTAGAAT GGAACCGGCG	300
	AGTTLACGAT TTGGATLGCA AGGTTAAGCA GTAAATGTGG GAGCCGTA	348
25	(2) INFORMATION FOR SEQ ID NO: 4195: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4195:	
35	AAGGCAGATG CTCTCCCAGC TGAGCTAATT CTCCGATTTA AAACTGCCTG GCAACGTTCT	60
	ACTCTAGCGG AANTAAGTNG GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG	120
	CATGGGAACA GGTGTGACCT CCTTGCTATA GTCACCAGAC ATATGAATGT AATTTATACA	180
40	TTCAAAACTA GATAGTAAGT AAAAGTGATT TTGCTTCGCA AAACATTTAT TTTGATTAAG	240
	TCTTCGATCG ATTAGTATTC GTCAGCTCCA CATGTCACCA TGCTTCCACC TCGAACCTAT	300
45	TAACCTCATC ATCTTTGAGG GATCTTATAA nCGAGTTGGG	340
	(2) INFORMATION FOR SEQ ID NO: 4196:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTTGCAGGTG GCGGTGCGAC TGCAGAAGAC GTTAAATTAA TGAAAGATAC AGTAGGTGCT	60
	GATGTAGAAG TAAAAGCATC AGGTGGCGTA CGTAATTTAG AAGATTTCAA TAAAATGGTT	120
5	GAAGCAGGTG CGACACGTAT TGGTGCGAGC GCmGTGTTCA AATTATGCAA GGTTTAGAAG	180
	CAGATTCAGA TTACTAATAT ATATMAATMT TGGGAGTGAT AGCTATGACA AGACCATTTA	240
10	ATCGTGTACA TTTAATCGTA ATGGATTCAG TAGGTATTGG TGAAGCGCCA GACGCAGCTG	300
10	ATTTTAAAG ATGGAGGTTC ACATACTTTT A	331
	(2) INFORMATION FOR SEQ ID NO: 4197:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4197:	
	GTAGACGTCC CGATAGCCGT TACGCATGGT TACGATGTGT ATTGGTGTCG GCATGGGTGC	60
25	AGCTGCTATA TTTGAATATG TGCGTTAGAA TGGTTGATTT TGGATGAAGC GGATTCGTTT	120
	TGTTATTGAA TGAAGTAGGC TGAAGTTGAA GCCAGTTGAA GTTGAAGCGG GTTGAAGCAA	180
30	TTTCGTTTTA TTGAATGAAG CTGTGTGAAA TATAGTGATT GAACAAAAA AGTGGTTTAA	240
	TGGGATGGTG GTTATTTCCG TTTTAGAATT TAACATTTAC ACGTCTAATT TTAAATCATT	300
	GTTTTAAATT TTATGAATCG AAGCCCTTTG GATTTAATAN TATTGCTAAT GCNAGTAACT	360
35	natctgatig t	371
	(2) INFORMATION FOR SEQ ID NO: 4198:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4198:	
	GCGACCCCAA CCTTGGCAAG GTTGTnATTC TACCGCTGAA CTACTTCTGC ATATGCGGGT	60
50	GAAGGGAGTC GAACCCCCAC GCCGTAAGCT nAGnATCCTA AGTCTAGTGC GTCTGCCAAT	120
	TCCGCCACAC CCGCAAATGG TGAGCCATAG AGGATTCGAA CCTCTGACCC TCTGATTAAA	180
	AGTCAGATGC TCTACCAACT GAGCTAATGG CTCTTCCATG GTGCCGGCCA GAGGACTTGA	240

	TAAGAATAAA TGGTGGAGAA TGACGGGTTC GNACCGTCGA CCCTGTGCTT GTTAAGGCAG	360
	ATGGTTTTCC CACTGGGGTA AATTTTCCGA TITAAAAATG	400
5	(2) INFORMATION FOR SEQ ID NO: 4199:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4199:	
	ATCAGTTGCT GTTGCGCCTT GTGGTAATGA ATTTACTAGT CGTACACCAA TAACCTCTGG	60
	AATTGGGAAA TAAGAAGGTT GTCCAAGCAT TCCAGCTTCA GCTTCAATAC CACCAACACC	120
20	CCATCCTAGT ACGCCAATAC CATTTATCAT TGTTGTATGT GAATCAGTAC CAACTAATGT	180
	ATCTGGAAAT GCAGTTTTTT CACCATCTAC ATCACGAACA TGTACAACAC TTGCTAAATA	240
25	TTCTAAGTTA ACTTGGTGAA CTATTCCAGT TGCAGGAGGG AACTGCATTG TAATTATCAA	300
25	ATGCTTTCGG TTGGCCCAAT TTAAAAAACT GGATAACGTT CATnGTTACG TTCCAATTCC	360
	TAATTTCCnA ATTACGGTTC CANGAGCTTC TGGGATTTTG	400
30	(2) INFORMATION FOR SEQ ID NO: 4200:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4200:	
40	CAACCTTTAT TGGTAAAAAC ACCCCAGCCA GGCACTTTAC GCCTACGCAT CGCTTGTACA	60
	CGTGCTACTA DAGGTTTACC AACCACACCT GATTCAATTG CTTTTTTAGC AGTAATTGCC	120
45	ACATCTGTGT GACGATAATG ATATGCGACA GTTAATAATT TGTGATTTTT ATTAGCCGCT	180
	TCAATCATGC GATCACACTC TTCCGTCGTC ATCGCCATTG GCTTTTCACA CAATACATGG	240
	CACACCATGG TTCAATGCNT CTATAGAAAG ATCAGCAGGA ATTTATTAGG TGTACAAATG	300
50	ACCCATCAAC AAGTTTAAAC AGCTCGCTAG GTGnC	335
	(2) INFORMATION FOR SEQ ID NO: 4201:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4201:	
	ATGATGTGGC GGTGGTGAAA TCAGACCGAT ACCTGGCGTT GACCCTCTTG TCTTCGCAAT	. 60
	CCACGGATAT ACCTTAGTAC CAGGTAATTG ACCACCTTCA CCAGGCTTTG CACCTTGCGC	120
10	AACTITAATT TGAATTTCTT TGGCATGTTG TAAATAATCA CTAGTTACAC CAAAACGCCC	180
	AGAAGCAACT TGTTTAATCG CACTTACTTT GTTGCTTCCA TCAACTTGTA CTTCATAACG	240
15		
	TTTTGCATCT TCGGCAACTT CACCACTATT ACTCTTTCCA nCTAATTGGG TCATGGGCTG	300
	TGCTAACGTT TCATGTGCTT CCGnTGnAAT CGATCCATAA CTCATCGGCC CCGTATTAAA	360
20	GCGGTTGGAC	370
	(2) INFORMATION FOR SEQ ID NO: 4202:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4202:	
	CAGCTAGCGA CTTACCTTGA CGTTTTGnGT ATTCATTCCA GCTTTGTnGG AATGAGLCGG	60
	GATATAAGCA TCTTTAGATA ATGCACCATC AACTAATGGA TATTTATGTC CAGTTGGAGC	120
35	CAGAAATCAT AAACGTCTTC AGTGTAAGCA ACAGCATCTT CATTTAATGC CAAAATGCTT	180
	GGaTTAGTGC AATAACCATC GCAACTGNGC CANACCTTGT GTTGGCTCGC CGCCTGAATT	240
	CAATCCATAA CGTGCTGTAT CTGTAGCAAT AACTAATACT TTTTCATTCG GTCTAGTTGC	300
40	TAAATAATCT TTAGCTAATT GAATTGCTGG TGTTGCAGCA TAACAAGCTT CTTTCATTTC	360
	AAAGCAGCGT GCAAAAGGTT	380
45	(2) INFORMATION FOR SEQ ID NO: 4203:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4203:

	GACATGTCAC CAAGAGCATT AGAAGAAGTT ATTTACTTTG CTTCTTATGT TGTTGTAGAT	120
	CCAGGTCCAA CTGGTTTAGA AAAGAAAACT TTATTATCTG AAGCTGAATT CAGAGATTAT	180
5	TATGATAAAT ACCCAGGTCA ATTCGTTGCA AAAATGGGTG CAGAAGGTAT TAAAGATTTA	240
	CTTGGAAGAG ATTGATCTTG ACGAGGAACT TAAATTGTTA CGCGATGAGT TGGGAATCAG	300
10	CTACTGGGTC CAAAGACTTA CTCCGTGGCA ATTAACGGTT TAGAAGTTGT THGAATCATC	360
	CCGTAATCCA GGGTACCACC CTCCnnGGnT GGATTTAGGA	400
	(2) INFORMATION FOR SEQ ID NO: 4204:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 4204:	
	AAATTCTTCC GCCCTGTAAT TCCTTAACCG CTTCAACGGC ATCGTNAATN TCTTACATTT	60
25	AGATAAAGAT GCATTGCAAG ATATCGTCAA CTTATTATTA GACGATGTAC AAGTTACATT	120
	AGACAAAAA GGTATTACGA TGGACGTTTC TCAAGATGCG AAAGATTGGT TAATTGAAGA	1.80
30	AGGCTATGAT GAAGAATTAG GTGCACGTCC ATTAAGACGT ATTGTTGAAC AGCAAGTACG	240
	TGACAAAATT ACAGATTACT ATTTAGATCA TACAGACGTT AAACATGTGG ATATAGATGT	300
	TGAGGATAAC GAATTAGTCG TAAAAGGTA	329
35	(2) INFORMATION FOR SEQ ID NO: 4205:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4205:	
45	GGTAAACAAA AAACTTCCCT TTGGAAGCGA ATTATGGAGC GGAAGATAGG ATTTACACCT	60
	ATACCTCGTT CCGGGAAGGG CTGTTTCTAA AAGTTGAACT ACTCCCGCAA ATATTAAATT	120
50	ATGGAGCGGA AGATAGGATT TACACCTATA CCTCATTCCA GGAAGGAATG TATTCTAAGA	180
30	GTTGAAATAC TCCCGCATTA TTATTAAATT ATGGAGCGGA AGTAGGATTT GCACCTATAC	240
	CTCGTTCCGG GAAGGAGCTG TTTCTAAAAG TTGAACTACT ACCGCATAAA CCTGGTGGCG	300

(2) INFORMATION FOR SEQ ID NO: 4206:

6	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4206:	
	TACTTTGTGA ATCCAGAAAA CTTTGAGGAT GTCACTAATA GTGTGAATAT TACATTCCCA	60
15	ARTCCAAATC AATATAAAGT AGAGTTTAAT ACGCCTGATG ATCAAATTAC AACACCGTAT	120
	ATAGTAGTTG TTAATGGTCA TATTGATCCG AATAGCAAAG GTGATTTAGC TTTACGTTCA	180
	ACTITATATG GGTATAACTC GAATATAATT TGGCGCTCTA TGTCATGGGA CAACGANNAG	240
20	CATTTAATAA CGGATCAGGT TCTGGTGACG GTATCGATAA ACCAGTTGTT CCTGAACACC	300
	TGATGAGCCT GGTGAAATTG AACCAATCCA GGGATCAGAT CTGACCCAGG TCAGATCTGG	360
	CAGCGATCTA ATCAGNAGCG GTCAGATCGG GNAGGATCAC	400
25	(2) INFORMATION FOR SEQ ID NO: 4207:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 402 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4207:	
	AAAAAGTTGA GAAAAATGTT TGAATCAGCA AACGTTGTGC AATCGAAATT TCCACACCAT	60
	CAAAACCTGC TTTAATCGCG CGTAATGTAG CATCGCnGwk ACTGCTGAAT GATGCTATTG	120
40	ATTITCTCAT GAGACATGGC GATAACATCG TGTTtCAATC GGTGAATGCA ATGWCATAGG	180
	GCTTGGTCCA TACACCTTTC CAAAATTTAA AATGGCTTGA TTTGAAAAAC GACCAGCATG	240
	CGCTACTGGG ATAATAGCGA GGCTACCATG TTGTTTCATC GTAGATCCCA TGTTAGTTAA	300
45	TCCAGGGATA CAACCATCAT GATCAATATT AAAnCATATC CAACCATTGA CCATAAGGTC	360
	AATGTAACAC GCCGGTGACT TCATCCAGCT GAATAGACGC GT	40
	(2) INFORMATION FOR SEQ ID NO: 4208:	
60	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 380 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4208:	
5	GAAGAGTTGC AGCAGCAGAT ACAATTTATC CATTCACTCA AGCTGAAAAT GTTTGGTTAC	60
	CARACARARA TGACATCATC GARARAGCAR RAGRARACTTT AGRATTITAR TACATTTTAR	120
	AAGTTAACGA ATTAGCCGTG ATTTTAGTCT CATTGATTAA AATGAAATNG TTAATTTACG	180
10	AAATCTTAGG AGGGCAAAAA CGTGGGCATT TGAATTTAGA TTACCCGATA TCGGGGGAAG	240
	GTATCCACGA AGGTGAAATT GTAAAATGGT TTGTTAAAGC TGGAGGATAC TATNGGAAGA	300
	AGACGATGTT TTAGCTGGAG GTACAAAACC GATAAATCAG TAGTAGAAAT CCCCATCCAC	360
15	CAGCATCTGG TACHGGTAAG	380
	(2) INFORMATION FOR SEQ ID NO: 4209:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4209:	
	AATAAACCTC AGGCTATTCA ATGGCATACA AATTTAACGA ATGAGCGATT CACTACTATC	60
30	GCACATCGTG GCGCAAGTGG CTATGCACCC GAGCATACGT TTCAAGCATA TGATAAGAGT	120
	CATAATGAGT TAAAAGCATC TTATATCGAA ATTGATTTAC AACGTACCAA AGATGGCCAT	180
	TTAGTTGCTA TGCATGATGA AACTGTTAAC CGTACAACAA ATGGACACGG TAAAGTTGAG	240
35	GATTATACCC nTGATGAATT ANAACAGTTA GATGCAGGAA GTTGGTTAAT AAAAAATATC	300
	Charatacgc Cagagcagta TTARARTGCT ARAGTACCAC TTAGGTGGAA TTTAGGACGT	360
	ATTGGCCCGA TGCCAACnTT TATATTGAAC CAAGCACCTG	400
40	(2) INFORMATION FOR SEQ ID NO: 4210:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4210:	
	GCCCACAACC ACAAAGGCTG TAGGCTACAA ATATGGAGAC GGCGGGATTT GAACCCGCGT	60

	AAAAGTGATA AACAACCAAC ATGATGCTAG TTTGATTAAG TTTCTTCTAA ACAGACTTCA	18
	AACGGCATHG TTAGCATATC CTATTAAGGT TGAATCGCGT TAACAGCACA TAGGAAATGC	24
5	TGTTAGGCGA TGCAGAGTGC GATTAGGCAG CTACTGCGAA ATTATTGTnT GATTTGCCAG	30
	TTATTATAA CTGTGTGGTG TTGATGACGA	33
	(2) INFORMATION FOR SEQ ID NO: 4211:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4211:	
20	AAATCATCTT ATGACTGCTT TTTATTATAC TTTACATTTC TCGTTTCGTC AGATTCAAAC	6
	GTTTTCACTT CGCCAAGCCA TCTTTCTTTG TGTTTGCTTT TATTTTGACG TTTTAGACAT	12
	AAAAAAAGAG ACCTTGCGGT CTCAATGNGG CTCATCGCAT CCACTTTTTG CCTGGCAACG	18
25	TTCTACTCTA GCGGAACGTA AGTTCGACTA CCATCGACGC TAAGGAGCTT AACTTCnGTG	24
	TTCGGCATGG GAACAGGTGT GACCTCCTTG CTATAGTCAC CAGACATATG AATGTAAATT	30
	ATACATTCAA AACTAGATAG NAAGTAAAAG TGATTTTGC	33
30	(2) INFORMATION FOR SEQ ID NO: 4212:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4212:	
	GCGATGGTTG AAACATTGAC TGATATTAAA GAGTTTATGA ACCAAGTTGA GTCGCATAGC	6
	TAGTATGAAA CGTGGTGTGC GCATGGGAAC TATCAAGCTT TGAAGATGTG GTACTACATG	120
45	CGTTGAATTA GGGATCGGTA CTTTATATGA AGACGTGCTG CTTCCATTAA ATGAGTGATG	180
	CGATTTTGGC ATGAAGGTCA CCTnAAATGT ACATTGTTGT AATAAAATTG CCTATAAAAT	240
	TTTTAGCACA TAAAATAAGA GGGGCCANCC ATTTTAGACT ATAACAACGG TTGGCTCTTT	300
50	GAATTGTAAA AAGAAAACCA TACGCTATGn TATT	334
	(2) INFORMATION FOR SEQ ID NO: 4213:	

5	(A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4213:	
10	CTATGATTTC ACCGAGTCTC TCGTTGAGAC AGTGCCCAAA TCGTTACGCC TTTCGTGCGG	60
	GTCGTTACCC GACAAGGAAT TTCGCTACCT TAGGACCGTT ATAGTTACGC CGCCGTTTAC	120
	TGGGGCTTCG ATTCGTAGCT TCGCAGAGTA NACCCACTCC TCTTAACCTT CCAGCACCGG	180
15	GCAGGCGTCA CCCTATACAT CACCTTACGG TTTAGCAGAG ACCTGTGTTT TTGATAAACA	240
	GTCGCTTGGG CCTATTCACT GCGGCTCTTC TGGGGCGTTA ACCCTAAAGA GCACCCCTTC	300
	ThCCGAAGTT TACGGGGTCA hTTTGCCGAG TT	332
20	(2) INFORMATION FOR SEQ ID NO: 4214:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>30</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4214:	
	CGCCTGGCAA CGTTCTACTC TAGCGGAACG TAAGTTGGCT ACCATCGTCG CTAAAGACCT	60
	TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCTT CGGCTCTCGC TTACTCATTT	120
35	AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC	180
	GCCAAGCCAT TTTTCTTTGT GTTTACTTTT TANTTTGACG TTTTAGACAT AAAAAAAAAGA	240
	GACCTTGCGG TCTCAATGCG GCTCATCGCA TCCATTTTTT GCCTGGGCAA CGTTCTACTC	300
40	TAGCGGAACG TAAGTTGGGT ACCATCGACG CTAAGAACCT TCTTGGANTG TGGACAACGN	360
	TGG	363
46	(2) INFORMATION FOR SEQ ID NO: 4215:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4215:	

	TTATTTGTAT TGTATAGAGA GAAATAAAAA GADACCTTGT TTTACAAGGT TTCTAATACG	120
5	TTATGTTATG TAAATAACAG TTAATTATAC CGGTGGTCGG GGTCGAACCG ACACTCCACA	180
	AGTGGAACGG GGATTTTGAG TCCCGCGCGT CTGCCAATTC CGCCACACCG GCTTAATGGT	240
	AAACAAAAAA CTTCCCTTTG GAAGCAATTA TGGAGCGGAA GATAGGATTT ACACCTATAC	. 300
10	CTCGTTCCGG GAAGGACGTG TTCTAAAAGT TGACTACC	338
	(2) INFORMATION FOR SEQ ID NO: 4216:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4216:	
	ACGGTGATCC CATAATGCTT GAACATCAAT TTCATCCATT AATGTTACAT GAGGTGCAGT	60
	ATGCTTAGAG TTAACCATTG CTTTCGCAAT TGCTCTACGC ATAGCAGGGA TTTTTTCAGT	120
25	TGTTTCTGGG AAGTCGCCTT CTAATGTTAC TGCTGCAGGT GCTGCAGGAG TTTCAGCAAC	180
	TTCTTCACTT GTAGCTGAAG CAGCTGATTC ATTTGAAGCT GTTGGTGCAC CACCATTTAA	240
30	GTATGCATCT ACATCTTCTT TTGTAATACG ACCATTTTTA CCAGATCCAG AAACTGCTTT	300
	AATGNTAACA CCTNTTTCAC GTGCGTATTA CGACTGAAGG CATGCCTTAA CAGTCNGGTT	360
	CACCACTCTC AGTTGAGAGC ACAGGGCTGC nCGCTGGCGC	400
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 4217:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4217:	
45	AGGGAATCGA ATTTTCTTTC TCTTCCTCCG GGTACTAAGA TGTTTCAGTT CTCCGGGTGT	60
	GCCTTCTGAT ATGCTATGTA TTCACATATC GATAACATGA CATAACTCAT GCTGGGTTTC	120
	CCCATTCGGA AATCTCTGGA TCAAAGCTTA CTTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
50	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AATAACTTAA	240
	TCTATGTTTC CATCCTACAG GAAACGCGTT ATTAATCTTG TGAGTGTNCT TTCGAACATA	300
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(2) INFORMATION FOR SEQ ID NO: 4218:

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5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4218:	
	GGCGCCCTCG TGCCAAACAG TGCTCTACCT CCAATAATCA TCACTTGAng CTAGCCCTAA	60
15	AGCTATTTCG GAGAGAACCA GCTATCTCCA GGTTCGATTG GAATTTCTCC GCTACCCTCA	120
	GTTCATCCGC TCACTTTTCA ACGTAATCGG TTCGGTCCTC CANTCAGTGT TACCTGAACT	180
	TCAACCTGGA CCAAGGGTAG ATCACCTGGN TTCGGGTCTA CGACCAAATA CTAAACGCCC	240
20	TATTCAGACT CGCTTTCGCT GACGGCTCCA CATTTACTGC TTAACCTTGC ATCAAATCGT	300
	AACTCGCCGG TTGCATTCTA CAAAAGGCAC GCCATGCACC CATTA	345
	(2) INFORMATION FOR SEQ ID NO: 4219:	
<i>25</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4219:	
35	TCTTATGACT GCTTTTATT ATACTTTACA TTTCTCGTTT CGTCAGATTC AAACGTTTTC	60
	ACTTCGCCAA GCCATCTTTC TTTGTGTTTG CTTTTATTTT GACGTTTTAG ACATAAAAAA	120
	AGAGACCTTG CGGTCTCAAT GCGGCTCATC GCATCCACTT TTTGCCTGGC AACGTTCTAC	180
40	TCTAGCGGAA CGTAAAGTTC GNACTACCAT CGACGCTAAG GAGCTTAACT TCTGTGTTCG	240
	GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGGAAT GTAAATTATA	300
	CATTCARARC TAGATAGTAA GTARAGTGGn TTTGCTTCGC AAACCNTTAT TTTGGTTAGT	360
45	CTTCGTC	361
	(2) INFORMATION FOR SEQ ID NO: 4220:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 4220:	
10	AAGAGCCTTT CTTGACTTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCACTT	. 60
	ACTCATTTAG CTCTACTAAA CTCGTTGCGT TCTTTTCTCG TTTCGTCAGA TTCAAACGTT	120
	TTCACTTCGC CAAGCCATTT TTCTTTGTGT TTGCTTTTTA TTTTGACGTT TTAGACATAA	180
	naaaaagaga ccttgcggtc tcaatgcggc tcatcgcatc cattttttgc ctggcaacgt	240
	TCACTCTAGC GGAAnTAAGT CGAACTACCA TCGACGCTAA GGAGCTTAAC TTTCTGTGTT	300
	CGGCATGGGA ACAGGTGTGA CCCCCNTGGC TATAGTCACC AG	342
15	(2) INFORMATION FOR SEQ ID NO: 4221:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4221:	
25	ACCGGATGAC AGCCCCAGGA TGCGATGAGC CGACATCGAG GTGCCAAACC TCCCCGTCGA	60
	TGTGAACTCT TGGGGGAGAT AAGCLGTTAT CCCCGGGGTA GCTTTTATCC GTTGAGCGAT	120
30	GGCCCTTCCA TGCGGAACCA CCGGATCACT AAGTCCGTCT TTCGACCCTG CTCGACTTGT	180
	AGGTCTCGCA GTCAAGCTCC CTTATGCCTT TACACTCTAT GAATGATTTC CAACCATTCT	240
	GAGGGAACCT TTTGAGCGCC TCCGTTACCT TTTALGAGGC GACCGCCCCA GTCAAACTGC	300
35	CCGCCTGACA CTGTCTCnCA CCACGATAAG TGGCGnG	337
	(2) INFORMATION FOR SEQ ID NO: 4222:	-
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4222:	
60	GGCGCTTGAC TAAAAAGAAA TTGTACATTG AAAACTAGAT AAGTAAGTAA AATATAGATT	60
	TTACCAAGCA AAACCGAGTG AATAAAGAGT TTTAAATAAG CTTGAATTCA TAAGAAATAA	120
	TCGCTAGTGT TCGAAAGACA TCCACCAAGn TTAATAACGC GTTTAAATCT TTTTATAAAA	180
	GAAAACGTTT AGCAGACAAT GAGTTAAATT ATTTTAAAGC AGAGTTTACT TATGTAAATG	240
55		

	ACATAGATTA AGTTATTAAG GGCGCACGGT GGGTGCCDTG GCACTTAGAA GCCGCTGAAG	360
	G	361
6	(2) INFORMATION FOR SEQ ID NO: 4223:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4223:	
	CGGTAGAATA CAACCTTGCC AAGGTTGGCG TCGCGGGTTC GAATCCCGTC TTCTGCTCCA	60
	TTATTTTGCC GGGGTGGCGG AACTGGCAGA CGCACAGGAC TTAAAATCCT GCGGTGAGAG	120
20	ATCACCGTAC CGGTTCGATT CCGGTCCTCG GCACCATTTT AGCGCCCGTA GCTCAATTGG	180
	ATAGAGCGTT TGACTACGGA TCAAGAGGTT ATGGGTTCGA CTCCTATCGG GCGCGCCATT	240
	TTTAAATTAA TTGAATAACG GGAAGTTAGC TCAGCTTGGT AGAGCACTTG GTTTGGGGAC	300
25	CAAGGGTCGC AGTTCGAATC CTGTCTTCCC GATTACTCnT AAnTCCATTT ANGGGGGCTA	360
	GCTCAGTGGG GAGAGCGCTG CTTGCACGCA GGAGGTCACG	400
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 4224: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4224:	
40	CATAATATAC TCTTAAGTGT AAAGGGGAAT TTCCTGGGTA ATAATTCGCG TGTGCACCTT	60
	GAGTGACTTC TACCATTITA TAGTCAAATT GCTTTAGTTC GTTTGGTTTA ACGCCGACAC	120
	TCGCAAATGT ATAATCAAAG AACTTCACAA TATTGTTGCC TAAGAAGCCT TTGAATTCAA	180
45	TAGTGTCATT TCCAGCAATT TGTTCGGCAA CAATACTTGC TGCACGGGTG AGCGCCCCCA	240
	GnCAAAAGGA CCACTAGCCG GTAGAATCGA CATGTCGATA ATGTGATGGT TGCCAATAAT	300
50	CGCCTATTGC ATAATGTTTG GACCATTGGT TCCAAATTTA TCGTTACCGG TATGAAACCT	360
	TTCGATCCAG TTGGATAATT GAACTTCGNA AATTTGATTG	400
	(2) INFORMATION FOR SEQ ID NO: 4225:	